

APPENDIX D

WORK SCHEDULE

Listing of Currently Identified Interim and Major Milestones and
Target Dates

NOTES:

Major Milestones are indicated by a -00 suffix (example, M-21-00). Interim Milestones are indicated by a suffix greater than zero (example, M-22-02). A target date is indicated by a "T" (example, M-21-02-T01). See Section 2.0 of this Action Plan for more details.

Milestones and target dates which are completed, or have been deleted by an approved Tri-Party Agreement change request, are not displayed in Appendix D and have been archived.

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-013-00N LEAD AGENCY: DUAL (see note)	SUBMIT 1 200 NPL RI/FS (RFI/CMS) WORK PLAN FOR THE 200-UR-1, UNPLANNED RELEASES. Note:See operable unit LRA designation listing in Appendix C.	12/31/2003
M-013-00O LEAD AGENCY: DUAL (see note)	SUBMIT 1 200 NPL RI/FS (RFI/CMS) WORK PLAN FOR THE 200-SW-2, RADIOACTIVE LANDFILLS AND DUMPS OU. INCLUDES WASTE SITES IN THE 200-SW-1, NON-RADIOACTIVE LANDFILLS AND DUMPS OU. Note:See operable unit LRA designation listing in Appendix C.	12/31/2004
M-015-00	COMPLETE THE RI/FS (OR RFI/CMS) PROCESS FOR ALL OPERABLE UNITS.	12/31/2008
M-015-00C LEAD AGENCY: DUAL (see note)	COMPLETE ALL 200 AREA NON-TANK FARM OPERABLE UNIT PRE-ROD SITE INVESTIGATIONS UNDER APPROVED WORK PLAN SCHEDULES. Note:See operable unit LRA designation listing in Appendix C.	12/31/2008
M-015-39A	COMPLETE CHEMICAL SEWER GROUP FIELD WORK THROUGH SAMPLE COLLECTION AND ANALYSIS.	09/30/2003
M-015-39B	SUBMIT DRAFT A 200-CS-1 CHEMICAL SEWER GROUP RI REPORT.	05/31/2004
M-015-39C	SUBMIT DRAFT A 200-CS-1 CHEMICAL SEWER GROUP FS AND SUBMIT DRAFT A 200-CS-1 CHEMICAL SEWER GROUP PROPOSED PLAN/PROPOSED RCRA PERMIT MODIFICATION.	11/30/2005
M-015-40C	SUBMIT DRAFT A 200-CW-5 U POND/Z DITCHES COOLING WATER GROUP FS AND SUBMIT DRAFT A 200-CW-5 U POND/Z DITCHES COOLING WATER GROUP PROPOSED PLAN INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-CW-2 S-PONDS/DITCHES COOLING WATER GROUP, THE 200- CW-4 T-PONDS/DITCHES COOLING WATER GROUP, AND THE 200-SC-1 STEAM CONDENSATE GROUP.	10/31/2004
M-015-41C	SUBMIT THE DRAFT A 200-TW-1 OU AND 200-TW-2 OU FS AND DRAFT A PROPOSED PLAN TO EPA AND ECOLOGY.AND INCLUDES THE PAST PRACTICE WASTE SITES IN THE 200-PW-5 FISSION PRODUCT-RICH PROCESS WASTE GROUP. THE WASTE SITE ASSOCIATED WITH THE HANFORD PROTOTYPE BARRIER WILL BE ADDRESSED BY THE TW-1/TW-2 PROPOSED PLAN.	03/31/2004
M-015-43B	SUBMIT 200-PW-2 OU RI REPORT INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-PW-4 GENERAL PROCESS WASTE GROUP.	06/30/2004
M-015-43C	SUBMIT 200-PW-2 OU FEASIBILITY STUDY AND PROPOSED PLAN/PROPOSED RCRA PERMIT MODIFICATION INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-PW-4 GENERAL PROCESS WASTE GROUP.	12/31/2005
M-015-44A	SUBMIT 200-MW-1 OU REMEDIAL INVESTIGATION REPORT.	12/31/2005
M-015-44B	SUBMIT 200-MW-1 OU FEASIBILITY STUDY AND PROPOSED PLAN.	12/31/2006
M-015-46A	SUBMIT 200 AREA CHEMICAL LABORATORY WASTE OUs REMEDIAL INVESTIGATION REPORT, INCLUDING THE PAST PRACTICE WASTE SITES	10/31/2005

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	IN THE 200-LW-1 AND 200-LW-2 200 AREA CHEMICAL LABORATORY GROUPS.	
M-015-46B	SUBMIT 200 AREA CHEMICAL LABORATORY WASTE OUs FEASIBILITY STUDY AND PROPOSED PLAN/PROPOSED PERMIT MODIFICATION, INCLUDING THE PAST PRACTICE WASTE SITES IN THE 200-LW-1 AND 200-LW-2 200 AREA CHEMICAL LABORATORY GROUPS.	09/30/2006
M-016-00 LEAD AGENCY: DUAL (see note)	COMPLETE REMEDIAL ACTIONS FOR ALL NON-TANK FARM OPERABLE UNITS. Note:See operable unit LRA designation listing in Appendix C.	09/30/2024
M-016-00A	COMPLETE ALL INTERIM RESPONSE ACTIONS FOR THE 100 AREAS. COMPLETION OF INTERIM RESPONSE ACTIONS IS DEFINED AS THE COMPLETION OF THE INTERIM ROD OR ACTION MEMORANDUM REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN OR REMOVAL ACTION WORK PLAN AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS.	12/31/2012
M-016-00B	COMPLETE ALL INTERIM 300 AREA REMEDIAL ACTIONS TO INCLUDE CONFIRMATORY SAMPLING OF ALL CANDIDATE SITES LISTED IN THE 300-FF-2 ROD. COMPLETION OF ALL INTERIM REMEDIAL ACTIONS IS DEFINED AS THE COMPLETION OF THE INTERIM ROD REQUIREMENTS IN ACCORDANCE WITH AN APPROVED RD/RA WORK PLAN AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. COMPLETION OF CONFIRMATORY SAMPLING IS DEFINED AS THE COMPLETION OF THE SAMPLING NECESSARY TO DETERMINE WHETHER OR NOT THE WASTE SITE MEETS CRITERIA FOR CLEANUP OR CAN BE CLOSED OUT FROM THE WASTE INFORMATION DATA SYSTEM (WIDS) AS DEFINED IN THE RD/RA WORK PLAN. THE DISPOSITION OF IMPEDING SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH MILESTONE M-094-00.	09/30/2018
M-016-03H	COMPLETE REMEDIATION OF THE WASTE SITES IN THE 300-FF-1 OPERABLE UNIT TO INCLUDE EXCAVATION, VERIFICATION, AND REGRADING, INCLUDING THE 618-4 BURIAL GROUND IN ACCORDANCE WITH AN APPROVED REMEDIAL DESIGN REPORT/REMEDIAL ACTION WORK PLAN.	06/30/2004
M-016-03I	COMPLETE TREATMENT OF DRUMMED WASTE FROM THE 618-4 BURIAL GROUND IN ACCORDANCE WITH AN APPROVED REMEDIAL DESIGN REPORT/REMEDIAL ACTION WORK PLAN.	to be determined
M-016-26E	COMPLETE EXCAVATION AND REMOVAL OF 100-B/C PROCESS EFFLUENT PIPELINES.	09/30/2004
M-016-26F	COMPLETE BACKFILL OF 100 B/C PROCESS EFFLUENT PIPELINE EXCAVATIONS.	02/28/2005
M-016-45	COMPLETE THE INTERIM REMEDIAL ACTION FOR THE 100 B/C AREA.	12/31/2006

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-016-46	INITIATE REMEDIAL ACTIONS FOR THE REMAINING WASTE SITES FOR THE 100 D AREA.	07/31/2006
M-016-47	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 D AREA.	12/31/2011
M-016-48	INITIATE REMEDIAL ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 F AREA.	07/31/2005
M-016-49	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 F AREA.	12/31/2008
M-016-50	INITIATE REMEDIAL ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 H AREA.	07/31/2007
M-016-51	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR THE 100 H AREA.	12/31/2010
M-016-52	INITIATE RESPONSE ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 K AREA.	07/31/2009
M-016-53	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100 K AREA.	12/31/2012
M-016-54	INITIATE RESPONSE ACTIONS FOR THE REMAINING WASTES SITES FOR THE 100 N AREA.	07/31/2008
M-016-55	COMPLETE THE INTERIM RESPONSE ACTIONS FOR THE 100 N AREA.	12/31/2012
M-016-56	COMPLETE THE INTERIM REMEDIAL ACTIONS FOR 100-IU-2 AND 100-IU-6.	12/31/2008
M-016-60	COMPLETE INTERIM REMEDIAL ACTIONS FOR AT LEAST 3 OF THE FOLLOWING HIGH ENVIRONMENTAL PRIORITY 300-FF-2 WASTE SITES (316-4, 618-2, 618-3, 618-5 AND 618-7) AND COMPLETE CONFIRMATORY SAMPLING OF 300-FF-2 CANDIDATE SITES 300-7 AND 300-9.	12/31/2006
M-016-61	COMPLETE INTERIM REMEDIAL ACTIONS FOR THE REMAINING HIGH ENVIRONMENTAL PRIORITY 300-FF-2 WASTE SITES (316-4, 618-2, 618-3, 618-5 AND 618-7).	12/31/2008
M-016-62	COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES: 300-8, 300-18, 300-VTS, 316-4, 600-47, 600-259, 618-2, 618-3, 618-5, 618-7, 618-8, AND 618-13 (SEE TABLE 1 IN TPA CHANGE REQUEST M-16-01-06).	12/31/2012
M-016-63	SUBMIT A SCHEDULE AND TRI-PARTY AGREEMENT MILESTONES TO COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES (300-259, 303-M SA, 303-M UOF, UPR 300-46, UPR 300-17, AND 618-1) AND CONFIRMATORY SAMPLING OF THE FOLLOWING 300-FF-2 CANDIDATE SITES (300-109, 300-110, AND 333 ESHWSA) (SEE TABLE 2 IN TPA CHANGE REQUEST M-016-01-06) THE MILESTONE DELIVERABLE SHALL INCLUDE AT LEAST: 1) A SCHEDULE FOR SUBMITTALS OF ANY DOCUMENTS REQUIRING EPA AND/OR ECOLOGY APPROVAL (E.G., REMEDIAL DESIGN/REMEDIAL ACTION WORK PLANS,	11/30/2003

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	ETC.); 2) A SCHEDULE THAT DEFINES DATES FOR INITIATING AND COMPLETING INTERIM REMEDIAL ACTIONS AT WASTE SITES AND IMPEDING FACILITIES; 3) A TRI-PARTY AGREEMENT CHANGE PACKAGE THAT INCLUDES MILESTONES FOR GROUPS OF WASTE SITES AND IMPEDING FACILITIES THAT WILL ENSURE COMPLETION OF M-016-00B; AND 4) AN EVALUATION OF OUTYEAR TRI-PARTY AGREEMENT MILESTONES FOR THE 300 AREA TO SEE IF THEY CAN BE ACCELERATED. IT IS EXPECTED THAT SCHEDULES WILL BE ALIGNED WITH THE ASSOCIATED SCHEDULES REQUIRED BY M-094-01.	
M-016-64	COMPLETE INTERIM REMEDIAL ACTIONS FOR THE FOLLOWING 300-FF-2 WASTE SITES: (300-259, 303-M SA, 303-M UOF, UPR 300-46, UPR 300-17, AND 618-1) (SEE TABLE 2 IN TPA CHANGE REQUEST M-016-01-06).	09/30/2010
M-016-65	<p>SUBMIT A SCHEDULE AND TRI-PARTY AGREEMENT MILESTONES TO COMPLETE INTERIM REMEDIAL ACTIONS FOR THE 300-FF-2 WASTE SITES AND CONFIRMATORY SAMPLING OF 300-FF-2 CANDIDATE SITES INSIDE THE FENCE.</p> <p>THE MILESTONE DELIVERABLE SHALL INCLUDE AT LEAST: 1) A SCHEDULE FOR SUBMITTALS OF ANY DOCUMENTS REQUIRING EPA AND/OR ECOLOGY APPROVAL (E.G., REMEDIAL DESIGN/REMEDIAL ACTION WORK PLANS, ETC.); 2) A SCHEDULE THAT DEFINES DATES FOR INITIATING AND COMPLETING INTERIM REMEDIAL ACTIONS AT WASTE SITES AND ASSOCIATED IMPEDING SURPLUS FACILITIES; 3) A TRI-PARTY AGREEMENT CHANGE PACKAGE THAT INCLUDES MILESTONES FOR GROUPS OF WASTE SITES AND IMPEDING FACILITIES THAT WILL ENSURE COMPLETION OF M-016-00B; AND, 4) A TRI-PARTY AGREEMENT DISPOSITION PATH FOR ANY REMAINING 300-FF-2 WASTE SITES. IT IS EXPECTED THAT SCHEDULES WILL BE ALIGNED WITH THE ASSOCIATED SCHEDULES REQUIRED BY M-094-04.</p>	08/30/2005
M-016-66	<p>INITIATE INTERMEDIATE DESIGN AND AUTHORIZATION SAFETY ANALYSIS FOR REMEDIAL ACTIONS AT THE 618-10 AND 618-11 BURIAL GROUNDS.</p> <p>THE INTERMEDIATE DESIGN SHALL INCLUDE, AT A MINIMUM, A DESIGN BASIS REPORT, REMEDIATION APPROACH (I.E., PROCESS DEFINITION), SITE LAY OUT, EVALUATION OF INFRASTRUCTURE REQUIREMENTS (I.E., M-091 AND WASTE ISOLATION PILOT PLANT [WIPP] INTEGRATION PLANNING), AND PLANNING FOR TREATABILITY TESTS. INTERMEDIATE DESIGN ACTIVITIES WILL UTILIZE WIPP REMOTE HANDLED TRANSURANIC (RH-TRU) AND M-91 WASTE ACCEPTANCE CRITERIA, AN EVALUATION OF RH TRU TECHNOLOGY DEVELOPMENT EFFORTS AND AN EVALUATION OF LESSONS LEARNED FROM OTHER ONGOING DOE COMPLEX TRU EXCAVATION EFFORTS. THE AUTHORIZATION SAFETY ANALYSIS SHALL INCLUDE, AT A MINIMUM, ANY APPROVALS REQUIRED TO SUPPORT ADDITIONAL SITE CHARACTERIZATION WITHIN 618-10 AND 618-11 BURIAL GROUNDS FOR DESIGN PURPOSES AND ANY TREATABILITY INVESTIGATIONS.</p>	09/30/2004
M-016-67	SUBMIT AN INTERMEDIATE DESIGN REPORT, A REMEDIATION SCHEDULE	03/31/2007

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	<p>AND A TREATABILITY INVESTIGATION WORK PLAN FOR REMEDIAL ACTIONS AT THE 618-10 AND 618-11 BURIAL GROUNDS.</p> <p>THE INTERMEDIATE DESIGN REPORT SHOULD REPRESENT A 60% COMPLETE DESIGN REPORT. THE REMEDIATION SCHEDULE MUST IDENTIFY: 1) DATES FOR INITIATING AND COMPLETING INTERIM REMEDIAL ACTIONS AT WASTE SITES; AND 2) ANY DOCUMENTS REQUIRING EPA AND/OR ECOLOGY APPROVAL PRIOR TO INITIATING REMEDIAL ACTIONS (E.G., RD/RA WORK PLANS, ETC.). THE TREATABILITY INVESTIGATION WORK PLAN MUST BE CONSISTENT WITH WIPP RH-TRU AND M-91 WASTE ACCEPTANCE CRITERIA AND WILL BE SUBMITTED AS A TRI-PARTY AGREEMENT PRIMARY DOCUMENT.</p>	
M-020-00 LEAD AGENCY: ECOLOGY	<p>SUBMIT PART B PERMIT APPLICATIONS OR CLOSURE/POSTCLOSURE PLANS FOR ALL RCRA TSD UNITS. PERMIT APPLICATIONS, CLOSURE, AND POST-CLOSURE PLANS WILL BE SUBMITTED TO ECOLOGY FOR APPROVAL. INDIVIDUAL UNIT SUBMITTALS (ENFORCEABLE AS INTERIM MILESTONES) WILL OCCUR AS SHOWN IN APPENDIX D.</p> <p>PRECLOSURE WORK PLANS WILL BE PREPARED AND SUBMITTED FOR APPROVAL FOR TSD UNITS WHICH WILL ACHIEVE CLOSURE IN CONJUNCTION WITH THE DISPOSITION OF THE FACILITY IN WHICH THEY ARE CONTAINED.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-20 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-20 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p>	12/31/2008
M-020-00A	SUBMIT PART B PERMIT APPLICATIONS OR CLOSURE/POST CLOSURE PLANS FOR ALL RCRA TSD UNITS EXCEPT 216-A-10, 216-A-36B, 216-A-37-1, 207-A SOUTH RETENTION BASIN, 216-S-10 POND, 216-S-10 DITCH, 241-CX-70, 241-CX-71, AND 241-CX-72.	02/28/2004
M-020-00B	SUBMIT CLOSURE/POST-CLOSURE PLANS FOR 216-A-10, 216-A-36B, 216-A-37-1, 207-A SOUTH RETENTION BASIN, 216-S-10 POND, 216-S-10 DITCH, 241-CX-70, 241-CX-71, AND 241-CX-72.	12/31/2008
M-020-33	SUBMIT 216-A-10 CRIB, 216-A-36B CRIB, 216-A-37-1 CRIB, AND 207-A SOUTH RETENTION BASIN CLOSURE/POST CLOSURE PLANS TO ECOLOGY IN COORDINATION WITH THE FEASIBILITY STUDY FOR THE 200-PW-2 URANIUM-RICH PROCESS WASTE GROUP OPERABLE UNIT (TO BE COORDINATED UNDER M-15-43C).	12/31/2005

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M-020-39	SUBMIT 216-S-10 POND AND DITCH CLOSURE/POSTCLOSURE PLAN TO ECOLOGY IN COORDINATION WITH THE FEASIBILITY STUDY FOR THE 200-CS-1 CHEMICAL SEWER GROUP OPERABLE UNIT (TO BE COORDINATED UNDER M-15-39C).	11/30/2005
M-020-54	SUBMIT 241-CX-70 STORAGE TANK, 241-CX-71 NEUTRALIZATION TANK, 241-CX-72 STORAGE TANK CLOSURE/POST CLOSURE PLAN TO ECOLOGY IN COORDINATION WITH THE 200-IS-1 TANKS/LINES/PITS/BOXES OPERABLE UNIT WORK PLAN FEASIBILITY STUDY SCHEDULED UNDER M-13-00M.	12/31/2008
M-023-25	COMPLETE THE INSTALLATION OF LIQUID OBSERVATION WELLS (LOWS) FOR SSTs AX-103, B-101, T-101, T-109, TX-103, TX-104, B-107, B-108, B-109, BY-108, BX-110, TX-116, C-102, C-105, BX-109, TY-105, U-110, A-106, C-112, SX-111, SX-112, S-107, C-103, AND TX-105. ORDER OF INSTALLATION OF THESE LOWs SHALL GIVE PRIORITY TO THOSE CONTAINING PREDOMINANTLY SALT CAKE, OR WHICH OTHERWISE POSE A HIGHER RISK OF ENVIRONMENTAL CONTAMINATION SHOULD THEY FAIL. NOTE: LOW MONITORING FREQUENCY AND OTHER LEAK DETECTION AND MONITORING REQUIREMENTS WILL BE REVIEWED AS PART OF THE SINGLE-SHELL TANK SYSTEM LEAK DETECTION AND MONITORING FUNCTIONS AND REQUIREMENTS DOCUMENT.	09/30/2004
M-023-25F	COMPLETE THE INSTALLATION OF LIQUID OBSERVATION WELLS (LOWS) AND BEGIN WEEKLY LIQUID OBSERVATION MONITORING FOR FOUR ADDITIONAL SSTs.	03/31/2004
M-023-25G	COMPLETE THE INSTALLATION OF LIQUID OBSERVATION WELLS (LOWS) AND BEGIN WEEKLY LIQUID OBSERVATION MONITORING FOR FOUR ADDITIONAL SSTs.	09/30/2004
M-23-26	<p>SUBMIT TO ECOLOGY, AS A PRIMARY DOCUMENT, A SCHEDULE FOR PERFORMING LIQUID LEVEL ASSESSMENTS FOR 241-AX-151-CT, 241-BY-ITS2 TANK 2, 241-AX-IX, 241-BY-ITS1. ASSESSMENTS WILL INCLUDE LIQUID LEVEL MEASUREMENTS USING A MANUAL TAPE OR MORE ACCURATE METHOD, VOLUME ESTIMATES, AND A VIDEO INSPECTION OF THE TANKS AND SURROUNDING VAULTS SUFFICIENT TO DETERMINE IF THE WASTE IS BEING STORED IN MANNER THAT IS PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.</p> <p>THE SCHEDULE SHALL ESTABLISH DATES FRO EACH ASSESSMENT AND WILL ESTABLISH A COMPLETION DATE OF ALL ASSESSMENTS OF NO LATER THAN DECEMBER 31, 2006.</p>	09/30/2003
M-23-27	COMPLETE LIQUID LEVEL ASSESSMENTS FOR 244-CR CR-001, 244-CR CR-002, 244-CR CR-011, 244-CR CELL 1, 244-CR CELL2, 244-CR CELL 3. ASSESSMENTS WILL INCLUDE LIQUID LEVEL MEASUREMENTS USING A MANUAL TAPE OF MORE ACCURATE METHOD, VOLUME ESTIMATES, AND A VIDEO INSPTECTION OF THE TANKS AND SURROUNDING VAULT SUFFICIENT TO DETERMINE IF THE WASTE IS BEING STORED IN MANNER THAT IS PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.	12/30/2004

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M-024-000 LEAD AGENCY: ECOLOGY	<p>INSTALL RCRA GROUNDWATER MONITORING WELLS AT THE RATE OF 29 IN CY 1989, 30 IN CY 1990, AND UP TO 50 PER YEAR THEREAFTER AS SPECIFIED BY AGREED INTERIM MILESTONES UNTIL ALL LAND DISPOSAL UNITS AND SINGLE-SHELL TANKS ARE DETERMINED TO HAVE RCRA COMPLIANT MONITORING SYSTEMS.</p> <p>USDOE WILL INSTALL GROUNDWATER MONITORING WELLS AROUND RCRA LAND DISPOSAL UNITS AND THE SINGLE-SHELL TANKS AT THE RATE DESCRIBED ABOVE UNTIL ECOLOGY AGREES THAT ALL SUCH GROUNDWATER MONITORING SYSTEMS MEET THE REQUIREMENTS OF WAC 173-303-645.</p> <p>INSTALLATION OF GROUNDWATER WELLS SHALL MEAN THAT WELLS HAVE BEEN DRILLED, ADEQUATELY SEALED, AND SCREENED OVER NO MORE THAN 15 FEET OF THE AQUIFER UNLESS OTHERWISE APPROVED BY ECOLOGY, THAT ALL PUMPS AND ASSOCIATED SAMPLING EQUIPMENT HAVE BEEN INSTALLED, AND THAT SUCH WELLS HAVE BEEN DEVELOPED SUFFICIENTLY TO PROVIDE SATISFACTORY SAMPLES FOR ALL PARAMETERS TO BE ANALYZED.</p> <p>SPECIFIC UNITS TO RECEIVE GROUNDWATER WELLS AND THE NUMBER OF WELLS TO BE INSTALLED AT EACH UNIT WILL BE IDENTIFIED IN APPENDIX D IN TWO-YEAR INTERVALS (I.E., 1989 AND CY 1990 NOW, CY 1990 AND CY 1991 AT THE NEXT CY ANNUAL UPDATE, ETC.). SUCH SCHEDULES WILL BE ENFORCEABLE AS INTERIM MILESTONES.</p>	12/31/2003
M-024-00P LEAD AGENCY: ECOLOGY	INSTALL RCRA GROUNDWATER MONITORING WELLS AT THE RATE OF UP TO 50 (IF REQUIRED). (PLEASE REFER TO MILESTONE M-24-000 FOR COMPLETE WORDING OF THIS MILESTONE AND WORDING DETERMINING NUMBER OF WELLS TO BE DRILLED IN ANY ONE YEAR).	12/31/2004
M-024-00Q LEAD AGENCY: ECOLOGY	INSTALL RCRA GROUNDWATER MONITORING WELLS AT THE RATE OF UP TO 50 (IF REQUIRED). (PLEASE REFER TO MILESTONE M-24-000 FOR COMPLETE WORDING OF THIS MILESTONE AND WORDING DETERMINING NUMBER OF WELLS TO BE DRILLED IN ANY ONE YEAR).	12/31/2005
M-024-00R LEAD AGENCY: ECOLOGY	INSTALL RCRA GROUNDWATER MONITORING WELLS AT THE RATE OF UP TO 50 (IF REQUIRED). (PLEASE REFER TO MILESTONE M-24-000 FOR COMPLETE WORDING OF THIS MILESTONE AND WORDING DETERMINING NUMBER OF WELLS TO BE DRILLED IN ANY ONE YEAR).	12/31/2006 AND ANNUALLY THEREAFTER
M-026-01N	<p>SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1/1 OF THE PREVIOUS YEAR THROUGH 12/31 OF THE REPORTING YEAR.</p> <p>DOE'S ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT: 1) WILL BE EQUIVALENT TO (I.E. SHALL MEET ALL SUBSTANTIVE REQUIREMENTS OF) SITE TREATMENT PLANS AS REQUIRED BY THE FEDERAL FACILITY COMPLIANCE ACT OF 1992 (FFCA) AND 2) WILL MEET ALL REQUIREMENTS OF ECOLOGY'S FINAL DETERMINATION IN THIS MATTER DATED MARCH 29, 2000.</p>	04/30/2004

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	<p>THE REPORT SHALL INCLUDE A DESCRIPTION OF ACTIVITIES PLANNED AND TAKEN IN ACCORDANCE WITH AGREEMENT REQUIREMENTS AND PRIOR ANNUAL LDR REPORTS TO ACHIEVE FULL COMPLIANCE WITH AGREEMENT AND LDR REQUIREMENTS. THE REPORT SHALL UPDATE ALL INFORMATION CONTAINED IN THE LDR PLAN AND THE PRIOR ANNUAL LDR REPORT, INCLUDING PLANS AND SCHEDULES.</p> <p>THE FORMAT FOR THE REPORT SHALL BE BASED ON EQUIVALENCY WITH SITE TREATMENT PLAN REQUIREMENTS OF THE FFCA, ECOLOGY'S FINAL DETERMINATION IN THIS MATTER DATED MARCH 29, 2000, AND THE "REQUIREMENTS FOR HANFORD LDR PLAN," ISSUED BY EPA AND ECOLOGY ON APRIL 10, 1990. ADDITIONALLY, THE REPORT SHALL DESCRIBE ANY OTHER STUDIES OR EFFORTS THAT HAVE BEEN OR WILL BE UNDERTAKEN TO IDENTIFY ALTERNATIVES TO LAND DISPOSAL OF MIXED WASTES. THE NONRADIOACTIVE PORTION OF ANY MIXED WASTES THAT ARE REGULATED UNDER WASHINGTON STATE-ONLY REGULATIONS SHALL BE ADDRESSED IN THE REPORT. THE REPORT SHALL BE SUBMITTED AS A PRIMARY DOCUMENT.</p> <p>THE REPORT SHALL DOCUMENT AGREEMENT MAJOR AND INTERIM MILESTONES FOR ACHIEVING COMPLIANCE WITH LDR TREATMENT REQUIREMENTS AT TSD MIXED WASTE UNITS BY: 1) IDENTIFYING AND REPORTING PROGRESS AGAINST AGREEMENT MILESTONES AND 2) PROPOSING THE ESTABLISHMENT OF MILESTONES IN THE INSTANCE OF TSD MIXED WASTES NOT YET COVERED UNDER THE AGREEMENT AND FOR THE MODIFICATION OF CURRENT HFFACO SCHEDULES AS NECESSARY TO ACHIEVE COMPLIANCE WITH LDR TREATMENT REQUIREMENTS IN A MANNER EQUIVALENT TO STPs AS REQUIRED BY THE FFCA. THESE MILESTONES SHALL BE BASED ON SIGNIFICANT EVENTS IDENTIFIED IN THE LDR REPORT (I.E. SCHEDULES EQUIVALENT TO THOSE OF SITE TREATMENT PLANS AS REQUIRED BY THE FFCA) AND WILL BE SHOWN AS SCHEDULES WHICH ARE UPDATED ANNUALLY AS PART OF THE REPORT. APPROPRIATE MILESTONES WILL BE INCORPORATED IN THE AGREEMENT VIA THE CHANGE PROCESS DEFINED IN SECTION 12 OF THE ACTION PLAN UPON ISSUANCE OF THE APPROVED REPORTS.</p>	
M-026-01O	SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1-1 OF THE PREVIOUS YEAR THROUGH 12-31 OF THE REPORTING YEAR. (SEE M-26-01N FOR COMPLETE WORDING OF THIS MILESTONE)	04/30/2005
M-026-01P	SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1-1 OF THE PREVIOUS YEAR THROUGH 12-31 OF THE REPORTING YEAR. (SEE M-26-01N FOR COMPLETE WORDING OF THIS MILESTONE)	04/30/2006
M-026-01Q	SUBMIT AN ANNUAL HANFORD LAND DISPOSAL RESTRICTIONS REPORT IN ACCORDANCE WITH AGREEMENT REQUIREMENTS TO COVER THE PERIOD FROM 1-1 OF THE PREVIOUS YEAR THROUGH 12-31 OF THE REPORTING YEAR. (SEE M-26-01N FOR COMPLETE WORDING OF THIS MILESTONE)	04/30/2007 AND ANNUALLY THEREAFTER
M-26-07A	SUBMIT TO EPA AND ECOLOGY AN EVALUATION OF DEVELOPMENT STATUS	03/31/2004

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	OF TRITIUM TREATMENT TECHNOLOGY THAT WOULD BE PERTINENT TO THE CLEANUP AND MANAGEMENT OF TRITIATED WASTE WATER (E.G., THE 242-A EVAPORATOR PROCESS CONDENSATE LIQUID EFFLUENT) AND TRITIUM CONTAMINATED GROUNDWATER AT THE HANFORD SITE.	
M-26-07B	SUBMIT TO EPA AND ECOLOGY AN EVALUATION OF DEVELOPMENT STATUS OF TRITIUM TREATMENT TECHNOLOGY THAT WOULD BE PERTINENT TO THE CLEANUP AND MANAGEMENT OF TRITIATED WASTE WATER (E.G., THE 242-A EVAPORATOR PROCESS CONDENSATE LIQUID EFFLUENT) AND TRITIUM CONTAMINATED GROUNDWATER AT THE HANFORD SITE.	03/31/2009
M-26-07C	SUBMIT TO EPA AND ECOLOGY AN EVALUATION OF DEVELOPMENT STATUS OF TRITIUM TREATMENT TECHNOLOGY THAT WOULD BE PERTINENT TO THE CLEANUP AND MANAGEMENT OF TRITIATED WASTE WATER (E.G., THE 242-A EVAPORATOR PROCESS CONDENSATE LIQUID EFFLUENT) AND TRITIUM CONTAMINATED GROUNDWATER AT THE HANFORD SITE.	03/31/2014 AND EVERY 5 YEARS THEREAFTER
M-034-00A LEAD AGENCY: EPA	COMPLETE REMOVAL OF SPENT NUCLEAR FUEL, SLUDGE, DEBRIS, AND WATER AT DOE'S K BASINS. NOTE: UNLESS OTHERWISE NOTED, THE TERM "K BASINS" IS USED HERE TO DENOTE BOTH K EAST AND K WEST BASINS.	07/31/2007
M-034-08	INITIATE FULL SCALE K EAST BASIN SLUDGE REMOVAL. DOE SHALL COMPLETE AND APPROVE K EAST SLUDGE REMOVAL DEFINITIVE DESIGN DOCUMENTS, ALL ASSOCIATED CONSTRUCTION, AND READINESS ASSESSMENTS, AND INITIATE REMOVAL OF SLUDGE FROM THE BASIN.	12/31/2002
M-034-09-T01	COMPLETE K BASINS RACK AND CANISTER REMOVAL. ALL FUEL STORAGE RACKS AND EMPTY FUEL CANISTERS SHALL BE REMOVED FROM THE K BASINS.	01/31/2005
M-034-10	COMPLETE SLUDGE REMOVAL FROM K BASINS. FUEL PROCESSING IN K BASINS SHALL BE COMPLETE, INCLUDING THE CAPTURE OF FUEL CANISTER SLUDGE IN THE INTEGRATED WATER TREATMENT SYSTEM AND REMOVAL OF VISIBLE FLOOR AND PIT SLUDGE.	08/31/2004
M-034-18B	COMPLETE REMOVAL OF ALL K BASIN SPENT NUCLEAR FUEL. THIS INTERIM MILESTONE WILL BE COMPLETE WHEN ALL SPENT NUCLEAR FUEL HAS BEEN REMOVED FROM BOTH THE K WEST BASIN AND THE K EAST BASIN AND HAS BEEN TRANSPORTED TO THE COLD VACUUM DRYING FACILITY. IT IS UNDERSTOOD THAT ADDITIONAL FUEL FRAGMENTS MAY BE DISCOVERED DURING REMOVAL OF THE SLUDGE.	07/31/2004
M-034-21-T01	INITIATE FULL SCALE K WEST BASIN WATER REMOVAL.	10/31/2005
M-034-22	COMPLETE K WEST BASIN WATER REMOVAL.	08/31/2006
M-034-23	INITIATE FULL SCALE K EAST BASIN WATER REMOVAL.	09/30/2004
M-034-24	COMPLETE K EAST BASIN WATER REMOVAL.	09/30/2005

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M-034-25-T01	<p>COMPLETE TRANSFER OF K EAST BASIN SPENT NUCLEAR FUEL TO THE K WEST BASIN.</p> <p>THIS TARGET DATE WILL BE COMPLETE WHEN ALL SPENT NUCLEAR FUEL HAS BEEN REMOVED FROM THE K EAST BASIN AND HAS BEEN TRANSPORTED INTO THE K WEST BASIN. IT IS UNDERSTOOD THAT ADDITIONAL FUEL FRAGMENTS MAY BE DISCOVERED DURING THE SUBSEQUENT REMOVAL OF THE SLUDGE.</p>	05/31/2004
M-034-28	<p>COMPLETE REMOVAL OF SPENT NUCLEAR FUEL EQUIVALENT TO 1,619 METRIC TONS HEAVY METAL FROM THE K WEST BASIN.</p> <p>THIS INTERIM MILESTONE WILL BE COMPLETE WHEN SPENT NUCLEAR FUEL EQUIVALENT TO 1,619 METRIC TONS HEAVY METAL HAS BEEN REMOVED FROM THE K WEST BASIN AND TRANSPORTED TO THE COLD VACUUM DRYING FACILITY.</p>	12/31/2003
M-035-00 LEAD AGENCY: DUAL	COMPLETE DATA MANAGEMENT ENHANCEMENTS AS NEGOTIATED AND APPROVED IN M-35-00 INTERIM MILESTONES.	To Be Determined
M-035-09D	CONDUCT BIENNIAL ASSESSMENTS OF INFORMATION AND DATA ACCESS NEEDS WITH EPA AND ECOLOGY. DOE WILL PROPOSE IMPLEMENTATION SCHEDULES (TPA MILESTONES) FOR ENHANCEMENTS AS A RESULT OF THE BIENNIAL ASSESSMENTS.	03/31/2004
M-035-09E	CONDUCT BIENNIAL ASSESSMENTS OF INFORMATION AND DATA ACCESS NEEDS WITH EPA AND ECOLOGY. DOE WILL PROPOSE IMPLEMENTATION SCHEDULES (TPA MILESTONES) FOR ENHANCEMENTS AS A RESULT OF THE BIENNIAL ASSESSMENTS.	03/31/2006 AND BIENNIALLY THEREAFTER
M-042-00 LEAD AGENCY: ECOLOGY	PROVIDE ADDITIONAL DOUBLE-SHELL TANK CAPACITY.	To Be Determined
M-043-00 LEAD AGENCY: ECOLOGY	COMPLETE TANK FARM UPGRADES.	06/30/2005
M-045-00 LEAD AGENCY: ECOLOGY	<p>COMPLETE CLOSURE OF ALL SINGLE SHELL TANK FARMS.</p> <p>CLOSURE WILL FOLLOW RETRIEVAL OF AS MUCH TANK WASTE AS TECHNICALLY POSSIBLE, WITH TANK WASTE RESIDUES NOT TO EXCEED 360 CUBIC FEET (CU. FT.) IN EACH OF THE 100 SERIES TANKS, 30 CU. FT. IN EACH OF THE 200 SERIES TANKS, OR THE LIMIT OF WASTE RETRIEVAL TECHNOLOGY CAPABILITY, WHICHEVER IS LESS. IF THE DOE BELIEVES THAT WASTE RETRIEVAL TO THESE LEVELS IS NOT POSSIBLE FOR A TANK, THEN DOE WILL SUBMIT A DETAILED EXPLANATION TO EPA AND ECOLOGY EXPLAINING WHY THESE LEVELS CANNOT BE ACHIEVED, AND SPECIFYING THE QUANTITIES OF WASTE THAT THE DOE PROPOSES TO LEAVE IN THE TANK. THE REQUEST WILL BE APPROVED OR DISAPPROVED BY EPA AND ECOLOGY ON A TANK-BY-TANK BASIS. PROCEDURES FOR MODIFYING THE RETRIEVAL CRITERIA LISTED ABOVE, AND FOR PROCESSING REQUESTS FOR EXCEPTIONS TO THE CRITERIA ARE OUTLINED IN APPENDIX H TO THE AGREEMENT.</p>	09/30/2024

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	<p>FOLLOWING COMPLETION OF RETRIEVAL, SIX OPERABLE UNITS (TANK FARMS), AS DESCRIBED IN APPENDIX C (200-BP-7, 200-PO-3, 200-RO-4, 200-TP-5, 200-TP-6, 200-UP-3), WILL BE REMEDIATED IN ACCORDANCE WITH THE APPROVED CLOSURE PLANS. FINAL CLOSURE OF THE OPERABLE UNITS (TANK FARMS) SHALL BE DEFINED AS REGULATORY APPROVAL OF COMPLETION OF CLOSURE ACTIONS AND COMMENCEMENT OF POST-CLOSURE ACTIONS.</p> <p>FOR THE PURPOSES OF THIS AGREEMENT ALL UNITS LOCATED WITHIN THE BOUNDARY OF EACH TANK FARM WILL BE CLOSED IN ACCORDANCE WITH WAC 173-303-610. THIS INCLUDES CONTAMINATED SOIL AND ANCILLARY EQUIPMENT THAT WERE PREVIOUSLY DESIGNATED AS RCRA PAST PRACTICE UNITS. ADOPTING THIS APPROACH WILL ENSURE EFFICIENT USE OF FUNDING AND WILL REDUCE POTENTIAL DUPLICATION OF EFFORT VIA APPLICATION OF DIFFERENT REGULATORY REQUIREMENTS: WAC 173-303-610 FOR CLOSURE OF THE TSD UNITS AND RCRA SECTION 3004(U) FOR REMEDIATION OF RCRA PAST PRACTICE UNITS.</p> <p>ALL PARTIES RECOGNIZE THAT THE RECLASSIFICATION OF PREVIOUSLY IDENTIFIED RCRA PAST PRACTICE UNITS TO ANCILLARY EQUIPMENT ASSOCIATED WITH THE TSD UNIT IS STRICTLY FOR APPLICATION OF A CONSISTENT CLOSURE APPROACH. UPGRADES TO PREVIOUSLY CLASSIFIED RCRA PAST PRACTICE UNITS TO ACHIEVE COMPLIANCE WITH RCRA OR DANGEROUS WASTE INTERIM STATUS TECHNICAL STANDARDS FOR TANK SYSTEMS (I.E., SECONDARY CONTAINMENT, INTEGRITY ASSESSMENTS, ETC.) WILL NOT BE MANDATED AS A RESULT OF THIS ACTION. HOWEVER, ANY EQUIPMENT MODIFIED OR REPLACED WILL MEET INTERIM STATUS STANDARDS. IN EVALUATING CLOSURE OPTIONS FOR SINGLE-SHELL TANKS, CONTAMINATED SOIL, AND ANCILLARY EQUIPMENT, ECOLOGY AND EPA WILL CONSIDER COST, TECHNICAL PRACTICABILITY, AND POTENTIAL EXPOSURE TO RADIATION. CLOSURE OF ALL UNITS WITHIN THE BOUNDARY OF A GIVEN TANK FARM WILL BE ADDRESSED IN A CLOSURE PLAN FOR THE SINGLE-SHELL TANKS.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-45 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-45 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0. COMPLETION OF THIS MAJOR MILESTONE REQUIRES THE COMPLETION OF THE WORK SCOPE IN ALL PRECEDING MILESTONES AND TARGET DATES, UNLESS OTHERWISE AGREED TO BY THE PARTIES.</p>	

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-045-00B	<p>COMPLETE "NEAR TERM" SST WASTE RETRIEVAL ACTIVITIES.</p> <p>UNTIL THE WASTE TREATMENT COMPLEX IS OPERATIONAL, THE AMOUNT OF DST SPACE AVAILABLE TO RECEIVE SST WASTE IS LIMITED. THE NEAR TERM FOCUS FOR SST WASTE RETRIEVAL WILL INCLUDE MAXIMIZING THE TRANSFER OF CONTAMINANTS OF CONCERN (LONG-LIVED, MOBILE RADIONUCLIDES) INTO THE DST SYSTEM. WORK UNDER THIS MILESTONE ALSO INCLUDES COMPLETION OF ONE "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATION, INITIATION OF A SECOND "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATION, AND RETRIEVAL OF SUFFICIENT SST WASTE CONTAINING NO LESS THAN 800 CURIES OF CONTAMINANTS OF CONCERN AND OCCUPYING A MINIMUM OF 2 MILLION GALLONS OF DST SPACE (PER DOE BEST-BASIS INVENTORY DATA, 8/01/2000). "LIMITS OF TECHNOLOGY" RETRIEVAL DEMONSTRATIONS WILL SEEK TO IMPROVE UPON PAST PRACTICE SLUICING (PPS) BASELINE TECHNOLOGY INCLUDING BUT NOT LIMITED TO RETRIEVAL EFFICIENCY, LEAK LOSS DURING RETRIEVAL, AND LEAK DETECTION MITIGATION AND MONITORING (LDMM). PROCEDURES FOR MODIFYING THE RETRIEVAL CRITERIA LISTED WITHIN THE ASSOCIATED MILESTONES, AND FOR PROCESSING REQUESTS FOR EXCEPTIONS TO THE CRITERIA ARE OUTLINED IN A NEW APPENDIX "H" TO THE AGREEMENT.</p>	09/30/2006
M-045-00C	<p>COMPLETE RENEGOTIATION OF SECOND PHASE (I.E., 9/30/2006 THROUGH 9/30/2015) SST WASTE RETRIEVAL ACTIVITIES.</p> <p>THESE NEGOTIATIONS SHALL TAKE INTO ACCOUNT VARIABLES SUCH AS WORK IN PROGRESS, E.G., DOE'S TANK WASTE TREATMENT COMPLEX ACQUISITION INITIATIVE AND ENVIRONMENTAL AND HUMAN HEALTH RISKS ASSOCIATED WITH RELEASES FROM DOE's SSTs. NEGOTIATIONS SHALL BE DESIGNED TO ESTABLISH A SUFFICIENT NUMBER OF AGREEMENT MILESTONES AND TARGET DATES TO EFFECTIVELY DRIVE EACH PHASE OF WORK INCLUDING BUT NOT LIMITED TO: 1.) WASTE RETRIEVAL TECHNOLOGY DEVELOPMENT, 2.) RETRIEVAL PERFORMANCE EVALUATIONS, 3.) LEAK DETECTION, MONITORING, AND MITIGATION, 4.) SELECTION OF SST RETRIEVAL SEQUENCE, 5.) DESIGN, CONSTRUCTION AND OPERATION OF SST WASTE RETRIEVAL SYSTEMS, AND 6.) CLOSURE PLANNING AND CLOSURE PLAN DEVELOPMENT. DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTES INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON A PRIORITY BASIS WITH THE GOALS OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION. DOE AND ECOLOGY WILL AGREE ON THE CRITERIA TO DETERMINE ENVIRONMENTAL RISK REDUCTION.</p> <p>NOTE: THESE NEGOTIATIONS WILL ALSO CONSIDER THE NEED FOR ADDITIONAL COMPLIANT STORAGE SPACE.</p>	02/28/2004
M-045-00D	COMPLETE RENEGOTIATION OF THE REMAINDER OF THE SST WASTE RETRIEVAL AND CLOSURE PROGRAM.	06/30/2011

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>THESE NEGOTIATIONS WILL ESTABLISH REGULATORY REQUIREMENTS FOR THE REMAINDER OF THE SST WASTE RETRIEVAL AND CLOSURE PROGRAM (THROUGH COMPLETION OF CLOSURE AT ALL SINGLE SHELL TANK FARMS). NEGOTIATIONS WILL INCLUDE MODIFICATION AS MAY BE NECESSARY OF COMPLETION DATES FOR SST WASTE RETRIEVAL AND SST FARM CLOSURE BASED ON EXPERIENCE GAINED FROM SST AND DST WASTE RETRIEVAL WORK COMPLETED, CORRECTIVE ACTIONS, PHASE I TREATMENT COMPLEX OPERATIONS, PHASE II TREATMENT PLANNING, KNOWN AND LIKELY VADOSE ZONE AND GROUNDWATER IMPACTS, AND OTHER AVAILABLE ENVIRONMENTAL IMPACT INFORMATION.</p> <p>DOE, AND DOE'S CONTRACTOR(S) WILL RETRIEVE AND TRANSFER SST WASTES INTO THE DST SYSTEM AS SOON AS SPACE IS MADE AVAILABLE, ALLOWING DST SPACE FOR TREATMENT PLANT FEED STAGING AND SAFETY ISSUE RESOLUTION. TRANSFER OF SST WASTE WILL BE MADE ONCE SUFFICIENT DST SYSTEM SPACE IS AVAILABLE TO ALLOW A TRANSFER OF AN OPERATIONALLY PRACTICABLE VOLUME OF WASTE. SST WASTE WILL BE RETRIEVED ON A PRIORITY BASIS WITH THE GOALS OF REDUCING ENVIRONMENTAL RISK AND TREATMENT PROCESS OPTIMIZATION. DOE AND ECOLOGY WILL AGREE ON THE CRITERIA TO DETERMINE ENVIRONMENTAL RISK REDUCTION.</p>	
M-045-02L	<p>SUBMIT ANNUAL UPDATES TO SST RETRIEVAL SEQUENCE DOCUMENT.</p> <p>THIS PROVIDES FOR AN ANNUAL UPDATE OF A SST RETRIEVAL SEQUENCE DOCUMENT THAT WILL DEFINE THE TANK RETRIEVAL SEQUENCE, SELECTION CRITERIA AND, RATIONALE, REFERENCE RETRIEVAL METHOD(S) FOR EACH TANK, AND THE ESTIMATED RETRIEVAL SCHEDULES. THE RETRIEVAL SEQUENCE DOCUMENT WILL DETAIL RETRIEVAL METHODOLOGIES TO BE EMPLOYED AND ESTIMATED WASTE VOLUMES TO BE GENERATED DURING RETRIEVAL (TO BE TRANSFERRED TO THE DST'S OR OTHER AVAILABLE SAFE STORAGE). THE REPORT WILL ALSO DETAIL TANK SELECTION RATIONALE BASED ON THE PRIMARY OBJECTIVE OF MAXIMIZING RISK REDUCTION THROUGH THE RETRIEVAL OF MOBILE, LONG-LIVED RADIONUCLIDES OR POTENTIAL AIRBORNE CONTAMINANTS AND PRINCIPLE NON RADIOLOGICAL HAZARDOUS CONSTITUENTS IN A MANNER WHICH IS SENSITIVE TO WASTE TREATMENT FACILITY REQUIREMENTS AND INFRASTRUCTURE CONSTRAINTS. THE SEQUENCING WILL ALSO TAKE IN CONSIDERATION DOUBLE-SHELL TANK (DST) SPACE AND DST WASTE COMPATABILITY WHEN SELECTING THE SST RETRIEVAL SEQUENCE. THE ANNUAL UPDATES WILL BE SUBMITTED TO ECOLOGY FOR APPROVAL AS AGREEMENT PRIMARY DOCUMENTS.</p>	09/30/2003
M-045-02M	<p>SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT. (SEE TEXT OF M-45-02L FOR FURTHER DETAILS).</p>	09/30/2004
M-045-02N	<p>SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT. (SEE TEXT OF M-45-02L FOR FURTHER DETAILS).</p>	09/30/2005
M-045-02O	<p>SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT. (SEE TEXT OF M-45-02L FOR FURTHER DETAILS).</p>	09/30/2006

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-045-02P	SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOCUMENT. (SEE TEXT OF M-45-02L FOR FURTHER DETAILS).	09/30/2007 AND ANNUALLY THEREAFTER
M-045-03C	<p>COMPLETE FULL SCALE SALTCAKE WASTE RETRIEVAL TECHNOLOGY DEMONSTRATION AT SINGLE-SHELL TANK S-112. WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. SELECTED SALTCAKE RETRIEVAL TECHNOLOGY (OR TECHNOLOGIES) MUST SEEK TO IMPROVE UPON THE PAST-PRACTICE SLUICING BASELINE IN THE AREAS OF EXPECTED RETRIEVAL EFFICIENCY, LEAK LOSS POTENTIAL, AND SUITABILITY FOR USE IN POTENTIALLY LEAKING TANKS.</p> <p>GOALS OF THIS DEMONSTRATION SHALL INCLUDE THE RETRIEVAL TO SAFE STORAGE OF APPROXIMATELY 550 CURIES OF MOBILE, LONG-LIVED RADIOISOTOPES AND 99% OF TANK CONTENTS BY VOLUME (PER DOE BEST-BASIS INVENTORY DATA, 8/01/2000).</p>	09/30/2005
M-045-03E	<p>COMPLETE S-112 SALTCAKE WASTE RETRIEVAL TECHNOLOGY DEMONSTRATION CONSTRUCTION (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING THOSE NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION).</p> <p>CONSTRUCTION WILL BE CONSIDERED COMPLETE WHEN ALL PROCESS EQUIPMENT IS INSTALLED AND ACCEPTANCE TESTS ARE COMPLETED.</p>	09/30/2004
M-045-03F	<p>COMPLETE FULL SCALE SLUDGE/HARD HEEL, CONFINED SLUICING AND ROBOTIC TECHNOLOGIES, WASTE RETRIEVAL DEMONSTRATION AT TANK C-104.</p> <p>WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. SELECTED SLUDGE/HARD HEEL TECHNOLOGY (OR TECHNOLOGIES) MUST SEEK TO IMPROVE UPON THE PAST-PRACTICE SLUICING BASELINE IN THE AREAS OF EXPECTED RETRIEVAL EFFICIENCY, LEAK LOSS POTENTIAL, AND SUITABILITY FOR USE IN POTENTIALLY LEAKING TANKS. CONFINED SLUICING IS DEFINED AS THE LOCALIZED ADDITION AND RETRIEVAL OF LIQUIDS AND WASTE. THIS DEMONSTRATION SHALL ALSO INCLUDE THE INSTALLATION AND IMPLEMENTATION OF FULL SCALE LEAK DETECTION, MONITORING, AND MITIGATION (LDMM) TECHNOLOGIES. THE PARTIES RECOGNIZE AND AGREE THAT THIS ACTION IS FOR DEMONSTRATION AND INITIAL WASTE RETRIEVAL PURPOSES. COMPLETION OF THIS DEMONSTRATION SHALL BE BY APPROVAL OF DOE AND ECOLOGY.</p> <p>GOALS OF THIS DEMONSTRATION SHALL INCLUDE THE RETRIEVAL TO SAFE STORAGE OF APPROXIMATELY 89 KG OF PLUTONIUM WHICH REPRESENTS APPROXIMATELY 17% OF THE TOTAL PLUTONIUM INVENTORY WITHIN THE SST SYSTEM), AND 99% OF TANK CONTENTS BY VOLUME (PER DOE'S BEST-BASIS INVENTORY DATA OF 8/01/2000).</p>	09/30/2007
M-045-03H	COMPLETE C-104 SLUDGE/HARD HEEL, CONFINED SLUICING AND	09/30/2004

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	<p>ROBOTIC TECHNOLOGIES, WASTE RETRIEVAL DEMONSTRATION DESIGN (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING DESIGN AND OPERATING STRATEGIES NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION (LDMM)).</p> <p>DESIGN WILL BE CONSIDERED COMPLETE WHEN 90% OF THE DESIGN HAS BEEN APPROVED FOR FABRICATION AND/OR CONSTRUCTION.</p>	
M-045-03I	<p>COMPLETE C-104 SLUDGE/HARD HEEL, CONFINED SLUICING AND ROBOTIC TECHNOLOGIES, WASTE RETRIEVAL DEMONSTRATION CONSTRUCTION (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING THOSE NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION).</p> <p>CONSTRUCTION WILL BE CONSIDERED COMPLETE WHEN ALL PROCESS EQUIPMENT IS INSTALLED AND ACCEPTANCE TESTS ARE COMPLETED.</p>	09/30/2006
M-045-05	<p>RETRIEVE WASTE FROM ALL REMAINING SINGLE-SHELL TANKS. COMPLETE WASTE RETRIEVAL FROM ALL REMAINING SINGLE-SHELL TANKS. RETRIEVAL STANDARDS AND COMPLETION DEFINITIONS ARE PROVIDED UNDER THE MAJOR MILESTONE. THE SCHEDULE REFLECTS RETRIEVAL ACTIVITIES ON A FARM-BY-FARM BASIS. IT ALSO ALLOWS FLEXIBILITY TO RETRIEVE TANKS FROM VARIOUS FARMS IF DESIRED TO SUPPORT SAFETY ISSUE RESOLUTION, PRETREATMENT OR DISPOSAL FEED REQUIREMENTS, OR OTHER PRIORITIES.</p>	09/30/2018
M-045-05-T05	INITIATE TANK RETRIEVAL FROM FIVE ADDITIONAL SINGLE-SHELL TANKS.	09/30/2007
M-045-05-T06	INITIATE TANK RETRIEVAL FROM FIVE ADDITIONAL SINGLE-SHELL TANKS.	09/30/2008
M-045-05-T07	INITIATE TANK RETRIEVAL FROM SEVEN ADDITIONAL SINGLE-SHELL TANKS.	09/30/2009
M-045-05-T08	INITIATE TANK RETRIEVAL FROM EIGHT ADDITIONAL SINGLE-SHELL TANKS.	09/30/2010
M-045-05-T09	INITIATE TANK RETRIEVAL FROM TEN ADDITIONAL SINGLE-SHELL TANKS.	09/30/2011
M-045-05-T10	INITIATE TANK RETRIEVAL FROM 12 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2012
M-045-05-T11	INITIATE TANK RETRIEVAL FROM 14 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2013
M-045-05-T12	INITIATE TANK RETRIEVAL FROM 17 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2014
M-045-05-T13	INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2015
M-045-05-T14	INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL	09/30/2016

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	TANKS.	
M-045-05-T15	INITIATE TANK RETRIEVAL FROM 20 ADDITIONAL SINGLE-SHELL TANKS.	09/30/2017
M-045-05-T17	<p>SUBMIT S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION FUNCTIONS AND REQUIREMENTS DOCUMENT.</p> <p>THIS DOCUMENT WILL ESTABLISH DEMONSTRATION SYSTEM SPECIFICATIONS (INCLUDING LDMM SYSTEM SPECIFICATIONS) AND WILL ALSO INCLUDE A SCOPING LEVEL RETRIEVAL PERFORMANCE EVALUATION (RPE) FOR EACH TANK. THE FUNCTIONS AND REQUIREMENTS DOCUMENT AND ITS ASSOCIATED RPE SHALL ALSO PROVIDE, AS A SEPARATE EVALUATION FOR EACH OF THE THREE TANKS, ENVIRONMENTAL AND HUMAN HEALTH RISK EVALUATION DATA/INFORMATION ASSOCIATED WITH ESTIMATED WASTE VOLUMES TO BE RETRIEVED, THE MAXIMUM VOLUME WHICH COULD LEAK DURING RETRIEVAL, AND RISK FROM RESIDUAL WASTE. THIS DOCUMENT WILL DETAIL KNOWN AND ESTIMATED RADIONUCLIDE CONTAMINATION AND CONTAMINANT MIGRATION WITHIN THE VADOSE ZONE AS BASES OF CALCULATION. LDMM AND RPE DOCUMENTATION PROVIDED WILL BE ADEQUATE TO ALLOW ECOLOGY TO ASSESS THE ADEQUACY OF THE DEMONSTRATION SYSTEMS. THIS DOCUMENT WILL INCORPORATE LESSONS LEARNED, INCLUDING LDMM, RETRIEVAL, INSTRUMENTATION, AND OPERATIONAL EXPERIENCE FROM PREVIOUS DOE AND INDUSTRY RELATED RETRIEVAL PROJECTS. THE RETRIEVAL FUNCTIONS AND REQUIREMENTS DOCUMENT WILL DOCUMENT ALL PERTINENT RETRIEVAL AND CLOSURE REQUIREMENTS, E.G. THOSE SPECIFIC TO THE EXTENT OF RETRIEVAL NECESSARY TO ALLOW CLOSURE. DOE WILL SUBMIT ITS LDMM STRATEGY AS PART OF THE FUNCTIONS AND REQUIREMENTS DOCUMENT, PRIOR TO INITIATION OF DESIGN. THIS DOCUMENT WILL BE SUBMITTED FOR ECOLOGY APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT.</p> <p>THIS FUNCTIONS AND REQUIREMENTS DOCUMENT WILL BE SUBMITTED IN A TIMELY FASHION SO THAT PROJECT CRITICAL PATH IS NOT AFFECTED, AND SO AS TO ALLOW ADEQUATE TIME FOR DOE AND ECOLOGY REVIEW, REVISION AND APPROVAL.</p>	04/30/2005
M-045-05A	<p>COMPLETE INITIAL WASTE RETRIEVAL FROM TANK S-102.</p> <p>THE S-102 INITIAL WASTE RETRIEVAL TECHNOLOGY (OR TECHNOLOGIES) WILL BE SELECTED BASED ON THE PRINCIPLE CRITERIA OF MAXIMIZING THE RETRIEVAL OF MOBILE, LONG-LIVED RADIOISOTOPES AND NON-RADIOLOGICAL HAZARDOUS CONSTITUENTS. THE PARTIES RECOGNIZE AND AGREE THAT THIS ACTION IS FOR INITIAL WASTE RETRIEVAL PURPOSES. COMPLETION OF THIS INITIAL RETRIEVAL SHALL BE BY APPROVAL OF DOE AND ECOLOGY.</p> <p>GOALS OF THIS INITIAL WASTE RETRIEVAL PROJECT SHALL INCLUDE THE RETRIEVAL TO SAFE STORAGE OF APPROXIMATELY 490 CURIES OF MOBILE, LONG-LIVED RADIOISOTOPES AND 99% OF TANK CONTENTS BY VOLUME (PER DOE BEST-BASIS INVENTORY DATA, 8/01/2000).</p>	09/30/2006

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	COMPLETION OF S-102 INITIAL WASTE RETRIEVAL IS SUBJECT TO SAFE STORAGE SPACE AVAILABILITY CONSISTENT WITH M-45-00B.	
M-045-05C	<p>COMPLETE S-102 INITIAL WASTE RETRIEVAL PROJECT CONSTRUCTION (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING THOSE NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION).</p> <p>CONSTRUCTION WILL BE CONSIDERED COMPLETE WHEN ALL PROCESS EQUIPMENT IS INSTALLED AND ACCEPTANCE TESTS ARE COMPLETED.</p>	11/30/2005
M-045-05E	<p>COMPLETE S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT DESIGN (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING DESIGN AND OPERATING STRATEGIES NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION (LDMM) FOR EACH TANK).</p> <p>THE DESIGN WILL BE CONSIDERED COMPLETE WHEN 90% OF THE DESIGN HAS BEEN APPROVED FOR FABRICATION AND/OR CONSTRUCTION.</p>	06/30/2007
M-045-05F	<p>COMPLETE S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT CONSTRUCTION (TO INCLUDE ALL PHYSICAL SYSTEMS INCLUDING THOSE NECESSARY FOR LEAK DETECTION MONITORING AND MITIGATION).</p> <p>CONSTRUCTION WILL BE CONSIDERED COMPLETE WHEN ALL PROCESS EQUIPMENT IS INSTALLED AND ACCEPTANCE TESTS ARE COMPLETED.</p>	09/30/2008
M-45-05G-T01	<p>COMPLETE S-105, S-106, AND S-103 WASTE RETRIEVAL.</p> <p>WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. RETRIEVAL SHALL RETRIEVE AS MUCH WASTE AS TECHNICALLY POSSIBLE, WITH A REMAINING RESIDUAL OF NO MORE THAN 360 CUBIC FEET (CU. FT.).</p>	10/31/2009
M-45-05H	<p>INTERIM COMPLETION OF TANK C-106 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE C-106 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p> <ol style="list-style-type: none"> 1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT AND REQUIREMENTS SET BY THIS AGREEMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT). 2. REMAING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK. 3. THE C-106 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT. 	04/30/2004

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED, AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.	
M-45-05L-T01	COMPLETE FULL SCALE C-106 WASTE RETRIEVAL. WASTE SHALL BE RETRIEVED TO THE DST SYSTEM TO THE LIMITS OF THE TECHNOLOGY (OR TECHNOLOGIES) SELECTED. RETRIEVAL SHALL RETRIEVE AS MUCH WASTE AS TECHNICALLY POSSIBLE, WITH A REMAINING RESIDUAL OF NO MORE THAN 360 CUBIC FEET (CU. FT.).	11/01/2003
M-45-05M-T01	SUBMIT C-106 WASTE RETRIEVAL RESULTS, ANALYSIS OF RESIDUAL WASTE(S), AND (IF APPROPRIATE) REQUEST FOR EXCEPTION TO THE CRITERIA PURSUANT TO AGREEMENT APPENDIX H.	02/27/2004
M-45-05N-T01	FINAL COMPLETION OF TANK C-106 SST RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT. COMPLETION OF THE TANK C-106 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED C-106 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.	12/31/2004
M-045-06	COMPLETE CLOSURE OF ALL SINGLE-SHELL TANK FARMS IN ACCORDANCE WITH APPROVED CLOSURE/POST CLOSURE PLAN(S).	09/30/2024
M-045-06-T03	INITIATE CLOSURE ACTIONS ON AN OPERABLE UNIT OR TANK FARM BASIS. CLOSURE SHALL FOLLOW COMPLETION OF THE RETRIEVAL ACTIONS UNDER PROPOSED MILESTONE M-45-05. CLOSURE WILL BE DEFINED IN AN APPROVED CLOSURE PLAN FOR THE DEMONSTRATION FARM. FINAL CLOSURE IS DEFINED AS REGULATORY APPROVAL OF COMPLETION OF CLOSURE ACTIONS.	03/31/2012
M-045-06-T04	COMPLETE CLOSURE ACTIONS ON ONE OPERABLE UNIT OR TANK FARM.	03/31/2014
M-45-06-T20A	SUBMIT SST SYSTEM IMPLEMENTATION PLAN IN SUPPORT OF RETRIEVAL AND CLOSURE ACTIVITIES. MAJOR WORK AREAS COVERED IN THE IMPLEMENTATION PLAN WILL INCLUDE WASTE RETRIEVAL OPERABLE UNITS CHARACTERIZATION, TECHNOLOGIES DEVELOPMENT TO SUPPORT CLOSURE, RISK ASSESSMENTS, AND GROUNDWATER MONITORING STRATEGIES. (REFINEMENT OF THE MAJOR WORK AREAS WILL BE DEVELOPED IN A JOINT ECOLOGY/DOE WORKSHOP.) DOE's SST SYSTEM IMPLEMENTATION PLAN UPDATE WILL BE SUBMITTED TO ECOLOGY AS A PRIMARY DOCUMENT.	06/30/2004
M-45-06-T20B	SUBMIT SST SYSTEM IMPLEMENTATION PLAN IN SUPPORT OF RETRIEVAL AND CLOSURE ACTIVITIES. MAJOR WORK AREAS COVERED IN THE IMPLEMENTATION PLAN WILL INCLUDE WASTE RETRIEVAL OPERABLE UNITS CHARACTERIZATION,	06/30/2006

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	TECHNOLOGIES DEVELOPMENT TO SUPPORT CLOSURE, RISK ASSESSMENTS, AND GROUNDWATER MONITORING STRATEGIES. (REFINEMENT OF THE MAJOR WORK AREAS WILL BE DEVELOPED IN A JOINT ECOLOGY/DOE WORKSHOP.) DOE's SST SYSTEM IMPLEMENTATION PLAN UPDATE WILL BE SUBMITTED TO ECOLOGY AS A PRIMARY DOCUMENT.	
M-45-06-T20C	SUBMIT SST SYSTEM IMPLEMENTATION PLAN IN SUPPORT OF RETRIEVAL AND CLOSURE ACTIVITIES. MAJOR WORK AREAS COVERED IN THE IMPLEMENTATION PLAN WILL INCLUDE WASTE RETRIEVAL OPERABLE UNITS CHARACTERIZATION, TECHNOLOGIES DEVELOPMENT TO SUPPORT CLOSURE, RISK ASSESSMENTS, AND GROUNDWATER MONITORING STRATEGIES. (REFINEMENT OF THE MAJOR WORK AREAS WILL BE DEVELOPED IN A JOINT ECOLOGY/DOE WORKSHOP.) DOE's SST SYSTEM IMPLEMENTATION PLAN UPDATE WILL BE SUBMITTED TO ECOLOGY AS A PRIMARY DOCUMENT.	06/30/2008 (AND EVERY 2 YEARS THEREAFTER)
M-45-06A	SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN AND C-106 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING: <ol style="list-style-type: none">1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES. THIS APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS, WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).2. A RISK ASSESSMENT METHODOLOGY INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENARIOS). THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.	12/19/2002
M-45-06B	SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN MODIFICATION AND S-112 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING: <ol style="list-style-type: none">1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES. THIS	03/31/2005

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	<p>APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS, WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).</p> <p>2. A RISK ASSESSMENT METHODOLOGY INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENARIOS).</p> <p>THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.</p>	
M-45-06C	<p>SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN MODIFICATION AND S-102 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING:</p> <p>1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES. THIS APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS, WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).</p> <p>2. A RISK ASSESSMENT METHODOLOGY INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENERIOS).</p> <p>THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.</p>	03/31/2006

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-45-06D	<p>SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN MODIFICATION AND C-104 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING:</p> <ol style="list-style-type: none">1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES. THIS APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS, WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).2. A RISK ASSESSMENT METHODOLOGY INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENARIOS). <p>THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.</p>	06/30/2007
M-45-06E	<p>SUBMIT A CERTIFIED (FRAMEWORK) SST SYSTEM CLOSURE PLAN MODIFICATION FOR TANKS S-105, S-106, AND S-103 CLOSURE DEMONSTRATION PLAN, AS AN APPLICATION FOR A MODIFICATION TO THE HANFORD SITE-WIDE HAZARDOUS WASTE FACILITY PERMIT TO ECOLOGY. THIS SUBMITTAL WILL INCLUDE ALL REQUIRED CLOSURE PLAN ELEMENTS, AND PROVIDE A SEPARATE STAND ALONE EVALUATION FOR EACH TANK. ADDITIONALLY, THIS SUBMITTAL WILL INCLUDE THE FOLLOWING:</p> <ol style="list-style-type: none">1. CHARACTERIZATION APPROACH FOR RESIDUAL WASTES IN S-105, S-106, AND S-103. THIS APPROACH WILL SUPPORT DECISIONS REGARDING THE COMPLIANCE OF THE RESIDUAL WASTE WITH APPLICABLE REGULATORY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: CHARACTERIZATION NEEDS, WORK REQUIREMENTS, WORK SCHEDULES, AND CONTAMINANTS OF CONCERN FOR; RISK ASSESSMENT, LAND DISPOSAL RESTRICTION (LDR), AND THE WASHINGTON STATE HAZARDOUS WASTE MANAGEMENT ACT).2. A RISK ASSESSMENT METHODOLOGY FOR TANKS S-105, S-106, AND S-103, INCLUSIVE OF THE ASSUMPTIONS, APPROACH, CONCEPTUAL MODEL, AND METRICS (E.G., POINT OF COMPLIANCE, RECEPTOR SCENARIOS). <p>THE CHARACTERIZATION REQUIREMENTS AND RISK ASSESSMENT METHODOLOGY WILL BE JOINTLY DEVELOPED BY DOE AND ECOLOGY PRIOR TO THE SUBMITTAL.</p>	12/31/2008
M-045-13	<p>INTERIM COMPLETION OF TANK S-112 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p>	06/30/2006

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	<p>THE S-112 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p> <ol style="list-style-type: none"> 1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-112 SALTCAKE WASTE RETRIEVAL TECHNOLOGY FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT). 2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK. 3. THE S-112 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT. 4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H. 	
M-45-13-T01	<p>FINAL COMPLETION OF TANK S-112 SST RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>COMPLETION OF THE TANK S-112 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED S-112 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.</p>	06/30/2007
M-45-14	<p>INTERIM COMPLETION OF TANK C-104 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>THE C-104 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET:</p> <ol style="list-style-type: none"> 1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED C-104 SLUDGE/HARD HEEL, CONTAINED SLUICING AND ROBOTIC TECHNOLOGIES WASTE RETRIEVAL FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT). 2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK. 3. THE C-104 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT. 4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS 	06/30/2008

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	APPROVED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.	
M-45-14-T01	FINAL COMPLETION OF TANK C-104 SST RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT. COMPLETION OF THE TANK C-104 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED C-104 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.	06/03/2009
M-45-15	INTERIM COMPLETION OF TANK S-102 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT. THE S-102 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET: 1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-102 INITIAL WASTE RETRIEVAL FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT) . 2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK. 3. THE S-102 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT. 4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H.	06/30/2007
M-45-15-T01	FINAL COMPLETION OF TANK S-102 SST RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT. COMPLETION OF THE TANK S-102 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED S-102 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.	06/30/2008
M-45-16	INTERIM COMPLETION OF TANK S-105, S-106, AND S-103 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT. THE S-105, S-106, AND S-103 SST WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT WILL BE CONSIDERED INTERIM COMPLETE WHEN THE FOLLOWING CRITERIA HAVE BEEN MET AND DOCUMENTED FOR EACH OF THE TANKS: 1. FULL SCALE WASTE RETRIEVAL HAS BEEN COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS	07/31/2010

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	<p>INCLUDING WASHINGTON'S HAZARDOUS WASTE MANAGEMENT ACT, REQUIREMENTS SET BY THIS AGREEMENT, AND THE APPROVED S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION FUNCTIONS AND REQUIREMENTS DOCUMENT (DOE WILL DOCUMENT PROJECT DATA AND RESULTS IN A WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT REPORT).</p> <ol style="list-style-type: none"> 2. REMAINING WASTES HAVE BEEN ADEQUATELY CHARACTERIZED, AND A RISK ASSESSMENT, APPROVED BY ECOLOGY, HAS BEEN COMPLETED FOR RESIDUALS THAT REMAIN IN THE TANK. 3. THE S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN HAS BEEN SUBMITTED BY DOE AND APPROVED BY ECOLOGY, I.E. INCORPORATED INTO THE SITE-WIDE PERMIT. 4. IF APPROPRIATE, DOE HAS REQUESTED, AND ECOLOGY HAS APPROVED, AN EXCEPTION TO WASTE RETRIEVAL CRITERIA PURSUANT TO AGREEMENT APPENDIX H. A REQUEST MAY BE MADE FOR EACH AND/OR ALL TANKS. 5. THIS DEMONSTRATION SHALL ALSO INCLUDE THE INSTALLATION AND IMPLEMENTATION OF FULL SCALE EXTERNAL-TANK LEAK DETECTION, MONITORING, AND MITIGATION (LDMM) TECHNOLOGIES FOR THESE THREE TANKS. THE BASELINE LDMM SYSTEM (I.E. DRYWELL LOGGING) IS TO BE SUPPLEMENTED, USING AN EXTERNAL-TANK ELECTRICAL RESISTIVITY (ER) METHOD. THE ELECTRICAL RESISTIVITY SYSTEM WILL BE DESIGNED FOR IMPLEMENTATION AT THE THREE TANKS AND FULLY DEPLOYED AT THE FIRST TANK TO BE RETRIEVED. CRITERIA FOR THE DEMONSTRATION AT THE FIRST TANK SHALL BE AGREED TO BY DOE AND ECOLOGY BEFORE THE TECHNOLOGY IS INSTALLED, BASED ON THE PERFORMANCE OF THE FIRST DEMONSTRATION. <ul style="list-style-type: none"> - IF THE PARTIES AGREE THAT THE METHOD IS SUITABLE, ER WILL BE DEPLOYED IN THE SUBSEQUENT SALTCAKE RETRIEVAL TANKS. - IF THE PARTIES DO NOT AGREE THAT ER IS SUITABLE FOR SUBSEQUENT SALTCAKE RETRIEVALS, OR IF THE DATA IS INCONCLUSIVE, ECOLOGY WILL REQUIRE APPROPRIATE LDMM TECHNOLOGY IN LIEU OF OR IN ADDITION TO ER. 	
M-45-16-T01	<p>FINAL COMPLETION OF TANK S-105, S-106, AND S-103 SST RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT.</p> <p>COMPLETION OF THE TANK S-105, S-106, AND S-103 RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT IS DEFINED AS THE COMPLETION OF NECESSARY FIELD PROJECT ACTIONS REQUIRED BY THE APPROVED S-105, S-106, AND S-103 WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PLAN.</p>	07/31/2011
M-045-55	SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT A PHASE 1 RFI REPORT INTEGRATING RESULTS OF DATA GATHERING ACTIVITIES AND EVALUATIONS FOR WMAS S-SX, T, TX-TY, AND B-BX-BY AND RELATED ACTIVITIES, INCLUDING	02/28/2004

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	GROUNDWATER MONITORING AND IMPACTS ASSESSMENT USING HANFORD SITE GROUNDWATER MODELS, WITH CONCLUSIONS AND RECOMMENDATIONS.	
M-045-55-T03	SUBMIT TO ECOLOGY FOR REVIEW AND COMMENT AS AN AGREEMENT SECONDARY DOCUMENT A FIELD INVESTIGATION REPORT PURSUANT TO THE SITE-SPECIFIC SST WMA PHASE 1 RFI/CMS WORK PLAN ADDENDA FOR WMA T AND WMA TX-TY.	01/31/2005
M-045-56	<p>COMPLETE IMPLEMENTATION OF AGREED-TO INTERIM MEASURES.</p> <p>SPECIFIC INTERIM MEASURES WILL BE IMPLEMENTED PURSUANT TO AGREEMENT COMMITMENTS (E.G., SEE INTERIM MILESTONE M-45-57). INTERIM MEASURES MAY ALSO BE REQUIRED BY ECOLOGY, PROPOSED BY DOE IN THE SST WMA RFI REPORT (M-45-55) (OR ENGINEERING STUDIES INCLUDING THAT ADDRESSED IN TARGET MILESTONE M-45-56-T01), OR ESTABLISHED BY AGREEMENT OF THE PARTIES AT ANY TIME DURING THE CORRECTIVE ACTION PROCESS. ALSO SEE TABLE 1 OF AGREEMENT CHANGE CONTROL FORM #M-45-98-03.</p> <p>ECOLOGY AND DOE AGREE, AT A MINIMUM, TO MEET YEARLY (BY JULY OR AS NEEDED TO SUPPORT ANNUAL BUDGETING) FOR THE SPECIFIC PURPOSE OF ASSESSING THE ADEQUACY OF INFORMATION, AND THE NEED FOR THE ESTABLISHMENT OF ADDITIONAL AGREEMENT INTERIM MEASURES. ADDITIONAL AGREEMENT INTERIM MEASURES SHALL BE DOCUMENTED THROUGH ESTABLISHMENT OF INTERIM MILESTONES AND ASSOCIATED TARGET DATES AS AGREED NECESSARY BY THE PARTIES.</p>	To Be Determined
M-045-58	SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT A CORRECTIVE MEASURES STUDY FOR INTERIM CORRECTIVE MEASURES (PENDING RESULTS AND CONCLUSIONS IN THE PHASE 1 RFI REPORT-MILESTONE M-45-55 OR SUBSEQUENT RFI REPORTS).	To Be Determined
M-045-59	<p>CONTROL SURFACE WATER INFILTRATION PATHWAYS AS NEEDED TO CONTROL OR SIGNIFICANTLY REDUCE THE LIKELIHOOD OF MIGRATION OF SUBSURFACE CONTAMINATION TO GROUNDWATER AT THE SST WMAS (PENDING THE CMS REPORT, MILESTONE M-45-58, AND IMPLEMENTATION OF OTHER INTERIM CORRECTIVE MEASURES.</p> <p>DECISIONS ON CONTROLLING SURFACE WATER INFILTRATION PATHWAYS WILL BE MADE BY EVALUATING THE ROLE OF SURFACE WATER INFILTRATION AND THE TRANSPORT OF SUBSURFACE CONTAMINATION TO GROUNDWATER. BASED ON THE CORRECTIVE MEASURES STUDY (M-45-58) INTERIM SURFACE BARRIERS AND/OR OTHER INFILTRATION CONTROLS MAY BE REQUIRED.</p>	To Be Determined
M-045-60	<p>SUBMIT TO ECOLOGY FOR REVIEW AND APPROVAL AS AN AGREEMENT PRIMARY DOCUMENT DOE'S RFI/CMS WORK PLAN FOR SST WMAS.</p> <p>THIS RFI/CMS WORK PLAN SHALL DOCUMENT THE ADDITIONAL INTERIM MEASURES AND FURTHER INVESTIGATIONS NEEDED FOR DECISIONS ON RETRIEVAL, CLOSURE, AND CORRECTIVE MEASURES FOR THE SST WMAS.</p>	SIX MONTHS FOLLOWING RFI REPORT APPROVAL

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-046-00J LEAD AGENCY: ECOLOGY	DOUBLE-SHELL TANK SPACE EVALUATION. THIS NEW MILESTONE REPLACES EXISTING MILESTONE M-31-02. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON AN ANNUAL BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTION WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION.	09/30/2003
M-046-00K LEAD AGENCY: ECOLOGY	DOUBLE-SHELL TANK SPACE EVALUATION. THIS NEW MILESTONE REPLACES EXISTING MILESTONE M-31-02. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON AN ANNUAL BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTIONS WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION.	09/30/2004
M-046-00L LEAD AGENCY: ECOLOGY	DOUBLE-SHELL TANK SPACE EVALUATION. THIS NEW MILESTONE REPLACES EXISTING MILESTONE M-31-02. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON AN ANNUAL BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTIONS WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION.	09/30/2005
M-046-00M LEAD AGENCY: ECOLOGY	DOUBLE-SHELL TANK SPACE EVALUATION. THIS NEW MILESTONE REPLACES EXISTING MILESTONE M-31-02. A TANK VOLUME PROJECTION REPORT SHALL BE SUBMITTED ON AN ANNUAL BASIS TO ECOLOGY AND EPA. THIS REPORT SHALL INCLUDE DISCUSSIONS COVERING ALL ASSUMPTIONS WHICH FORM THE BASIS OF THE PROJECTION. THE REPORT SHALL INCLUDE OR SHALL BE ACCOMPANIED BY DOE'S PLANS FOR ACQUISITION OF ADDITIONAL TANKS BASED ON THE TANK VOLUME PROJECTION.	09/30/2006 AND ANNUALLY THEREAFTER
M-046-01J	CONCURRENCE OF ADDITIONAL TANK ACQUISITION. THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.	11/30/2003
M-046-01K	CONCURRENCE OF ADDITIONAL TANK ACQUISITION. THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.	11/30/2004
M-046-01L	CONCURRENCE OF ADDITIONAL TANK ACQUISITION. THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.	11/30/2005
M-046-01M	CONCURRENCE OF ADDITIONAL TANK ACQUISITION. THE THREE PARTIES SHALL MEET TO ESTABLISH NEW MILESTONES, IF REQUIRED, FOR ACQUISITION OF ADDITIONAL TANKS.	11/30/2006 AND ANNUALLY

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
		THEREAFTER
M-46-21	<p>COMPLETE IMPLEMENTATION OF DOUBLE SHELL TANK SPACE OPTIMIZATION STUDY RECOMMENDATIONS (<u>TANK SPACE OPTIONS REPORT</u>, DOCUMENT NO. RPP-7702, APRIL 12, 2001).</p> <p>WORK UNDER THIS INTERIM MILESTONE SHALL HAVE THE OBJECTIVE OF CREATING SUFFICIENT DOUBLE-SHELL TANK STORAGE SPACE TO ACCOMMODATE THE PARTIES' WASTE RETRIEVAL AND CLOSURE DEMONSTRATIONS AT TANKS S-112, S-102, C-104, S-105, S-106, S-103 AND C-106. SUCH ACTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO DECREASING DEDICATED OPERATIONAL SPACE, CONCENTRATING WASTES TO A HIGHER SPECIFIC GRAVITY, AND RAISING ALLOWABLE TANK LEVELS.</p>	12/31/2005
M-047-00	<p>DOE, DOE'S PROJECT HANFORD MANAGEMENT CONTRACTOR (PHMC), AND ASSOCIATED CONTRACTORS SHALL COMPLETE ALL WORK NECESSARY IN SUPPORT OF THE ACQUISITION AND PHASE I OPERATIONS OF HANFORD SITE HIGH-LEVEL RADIOACTIVE TANK WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES. WORK INCLUDED UNDER THIS MILESTONE SERIES SHALL INCLUDE BUT IS NOT LIMITED TO WORK NECESSARY TO: (1) PROVIDE TIMELY TANK WASTE FEED TO TANK WASTE TREATMENT FACILITIES, (2) PROVIDE ADEQUATE DOUBLE-SHELL TANK (DST) SPACE, (3) PROVIDE NECESSARY INFRASTRUCTURE INCLUDING SOLID WASTE SERVICES AND SECONDARY WASTE TREATMENT (E.G., TANK WASTE TREATMENT FACILITY LIQUID EFFLUENTS). SEE ALSO MILESTONE SERIES M-90-00. THE PARTIES WILL REVISE OR CONFIRM THE DUE DATES FOR MILESTONES M-47-01, M-47-02, M-47-03, M-47-03A, M-47-04, M-47-05 AND M-47-05A WITHIN SIX (6) MONTHS OF AUTHORIZATION TO PROCEED (SEE MILESTONE M-62-04). REVISION, IF NECESSARY, SHALL BE CONSISTENT WITH HOT COMMISSIONING BY 2007, COMMERCIAL OPERATIONS BY 2009, AND COMPLETION OF PHASE I TREATMENT BY 2018. COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-47 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-47 MAJOR AND INTERIM MILESTONE REQUIREMENTS. DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p>	02/28/2018
M-047-01	COMPLETE CONSTRUCTION OF THE TRANSFER SYSTEM FROM THE 241-AP TANK FARM TO THE BNFL FACILITY TO SUPPORT THE START OF HOT COMMISSIONING OF THE PHASE I TANK WASTE TREATMENT COMPLEX.	03/31/2006
M-047-02	COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR REQUIRED TRANSFER SYSTEM UPGRADES TO ALLOW TRANSFER OF FIRST HIGH-LEVEL WASTE FEED TO THE PRETREATMENT / TREATMENT COMPLEX.	03/31/2007

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-047-03A	COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR WASTE RETRIEVAL AND MOBILIZATION SYSTEMS FOR SELECTED INITIAL HIGH-LEVEL WASTE FEED TANK.	02/28/2007
M-047-04	COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR REQUIRED TRANSFER SYSTEM UPGRADES TO ALLOW TRANSFER OF FIRST LOW-ACTIVITY WASTE FEED TO THE PRETREATMENT / TREATMENT COMPLEX.	06/30/2007
M-047-05	START CONSTRUCTION OF WASTE RETRIEVAL AND MOBILIZATION SYSTEMS FOR SELECTED INITIAL LOW-ACTIVITY WASTE FEED TANK (OTHER THAN AZ-101 AND AZ-102).	05/31/2004
M-047-05A	COMPLETE STARTUP AND TURNOVER ACTIVITIES FOR WASTE RETRIEVAL AND MOBILIZATION SYSTEMS FOR SELECTED INITIAL LOW-ACTIVITY WASTE FEED TANK (OTHER THAN AZ-101 OR AZ-102).	04/30/2006
M-047-06	COMPLETE NEGOTIATION OF ADDITIONAL AGREEMENT REQUIREMENTS (MILESTONES, TARGET DATES, AND ASSOCIATED LANGUAGE) GOVERNING WORK NECESSARY TO SUPPORT COMPLETION OF TREATMENT COMPLEX PHASE I OPERATIONS BY 2018.	06/30/2010
M-048-00	COMPLETE TANK INTEGRITY ASSESSMENT ACTIVITIES FOR HANFORD'S DOUBLE SHELL TANK (DST) SYSTEM. COMPLETE TANK INTEGRITY ASSESSMENT ACTIVITIES AS SET FORTH IN INTERIM MILESTONES ESTABLISHED UNDER THIS MAJOR MILESTONE.	09/30/2007
M-48-02G	SUBMIT TO ECOLOGY A REPORT ASSESSING TECHNOLOGY DEVELOPMENT. DEVELOP ULTRASONIC TESTING EQUIPMENT, OR AN EQUIVALENT TECHNOLOGY, FOR ASSESSING MATERIAL THICKNESS AND DEFECTS OF THE PREDICTED MAXIMUM STRESS REGION OF THE LOWER KNUCKLE BASE METAL OF DOUBLE-SHELL TANKS. THIS REPORT SHALL INCLUDE THE COST OF DEVELOPMENT OF THIS EQUIPMENT, IDENTIFICATION OF VENDORS CONTRACTED FOR DEVELOPING SUCH EQUIPMENT, TECHNICAL SPECIFICATIONS FOR SUCH EQUIPMENT, DATA QUALITY REQUIREMENTS FOR SUCH EQUIPMENT, AND AN ESTIMATED SCHEDULE FOR DELIVERY AND DEPLOYMENT OF THE EQUIPMENT INTO THE DSTs. THIS REPORT SHALL BE UPDATED AND SUBMITTED TO ECOLOGY BY MARCH 31, 2001, WITH SUBSEQUENT UPDATES SUBMITTED TO ECOLOGY EVERY SIX (6) MONTHS THEREAFTER, UNTIL SUCH EQUIPMENT IS DEVELOPED AND DEPLOYED.	09/30/2003
M-48-02H	SUBMIT TO ECOLOGY A REPORT ASSESSING TECHNOLOGY DEVELOPMENT. DEVELOP ULTRASONIC TESTING EQUIPMENT, OR AN EQUIVALENT TECHNOLOGY, FOR ASSESSING MATERIAL THICKNESS AND DEFECTS OF THE PREDICTED MAXIMUM STRESS REGION OF THE LOWER KNUCKLE BASE METAL OF DOUBLE-SHELL TANKS. THIS REPORT SHALL INCLUDE THE COST OF DEVELOPMENT OF THIS EQUIPMENT, IDENTIFICATION OF VENDORS CONTRACTED FOR	03/30/2004

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	DEVELOPING SUCH EQUIPMENT, TECHNICAL SPECIFICATIONS FOR SUCH EQUIPMENT, DATA QUALITY REQUIREMENTS FOR SUCH EQUIPMENT, AND AN ESTIMATED SCHEDULE FOR DELIVERY AND DEPLOYMENT OF THE EQUIPMENT INTO THE DSTs. THIS REPORT SHALL BE UPDATED AND SUBMITTED TO ECOLOGY BY MARCH 31, 2001, WITH SUBSEQUENT UPDATES SUBMITTED TO ECOLOGY EVERY SIX (6) MONTHS THEREAFTER, UNTIL SUCH EQUIPMENT IS DEVELOPED AND DEPLOYED.	
M-48-02I	SUBMIT TO ECOLOGY A REPORT ASSESSING TECHNOLOGY DEVELOPMENT. DEVELOP ULTRASONIC TESTING EQUIPMENT, OR AN EQUIVALENT TECHNOLOGY, FOR ASSESSING MATERIAL THICKNESS AND DEFECTS OF THE PREDICTED MAXIMUM STRESS REGION OF THE LOWER KNUCKLE BASE METAL OF DOUBLE-SHELL TANKS. THIS REPORT SHALL INCLUDE THE COST OF DEVELOPMENT OF THIS EQUIPMENT, IDENTIFICATION OF VENDORS CONTRACTED FOR DEVELOPING SUCH EQUIPMENT, TECHNICAL SPECIFICATIONS FOR SUCH EQUIPMENT, DATA QUALITY REQUIREMENTS FOR SUCH EQUIPMENT, AND AN ESTIMATED SCHEDULE FOR DELIVERY AND DEPLOYMENT OF THE EQUIPMENT INTO THE DSTs. THIS REPORT SHALL BE UPDATED AND SUBMITTED TO ECOLOGY BY MARCH 31, 2001, WITH SUBSEQUENT UPDATES SUBMITTED TO ECOLOGY EVERY SIX (6) MONTHS THEREAFTER, UNTIL SUCH EQUIPMENT IS DEVELOPED AND DEPLOYED.	09/30/2004 AND EVERY SIX MONTHS THEREAFTER UNTIL EQUIPMENT IS DEPLOYED
M-048-11	SUBMIT RESULTS OF (4) DST'S NOT PREVIOUSLY EXAMINED. SUBMIT A WRITTEN REPORT TO ECOLOGY DOCUMENTING RESULTS OF ULTRASONIC TESTING OF THE PRIMARY TANK WALLS IN FOUR (4) DST'S NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING. THIS REPORT SHALL MEET ALL THE REQUIREMENTS AND CONDITIONS SET FORTH IN INTERIM MILESTONE M-48-03. THIS REPORT SHALL INCLUDE A SCHEDULE IDENTIFYING EACH OF FOUR (4) ADDITIONAL DST'S, NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING, FOR COMPLETION BY SEPTEMBER 30, 2004.	09/30/2003
M-048-12	SUBMIT RESULTS OF (4) DST'S NOT PREVIOUSLY EXAMINED. SUBMIT A WRITTEN REPORT TO ECOLOGY DOCUMENTING RESULTS OF ULTRASONIC TESTING OF THE PRIMARY TANK WALLS IN FOUR (4) DST'S NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING. THIS REPORT SHALL MEET ALL THE REQUIREMENTS AND CONDITIONS SET FORTH IN INTERIM MILESTONE M-48-03. THIS REPORT SHALL INCLUDE A SCHEDULE IDENTIFYING EACH OF FOUR (4) ADDITIONAL DST'S, NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING, FOR COMPLETION BY SEPTEMBER 30, 2005.	09/30/2004
M-048-13	SUBMIT RESULTS OF (4) DST'S NOT PREVIOUSLY EXAMINED. SUBMIT A WRITTEN REPORT TO ECOLOGY DOCUMENTING RESULTS OF ULTRASONIC TESTING OF THE PRIMARY TANK WALLS IN FOUR (4)	09/30/2005

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	DST'S NOT PREVIOUSLY EXAMINED BY ULTRASONIC TESTING. THIS REPORT SHALL MEET ALL THE REQUIREMENTS AND CONDITIONS SET FORTH IN INTERIM MILESTONE M-48-03.	
M-048-14	<p>SUBMIT WRITTEN INTEGRITY REPORT FOR THE DOUBLE-SHELL TANK SYSTEM.</p> <p>SUBMIT A WRITTEN INTEGRITY ASSESSMENT REPORT FOR THE DOUBLE-SHELL TANK SYSTEM, TO ECOLOGY DOCUMENTING THE FOLLOWING: AN ASSESSMENT OF THE INTEGRITY OF THE DOUBLE-SHELL TANK SYSTEM. THE DOUBLE-SHELL TANK SYSTEM IS COMPRISED OF THE TWENTY-EIGHT (28) DST'S AND THEIR ANCILLARY EQUIPMENT.</p> <p>ANCILLARY EQUIPMENT WITHIN THE DOUBLE-SHELL TANK SYSTEM INCLUDES ALL SUBORDINATE TANK SYSTEMS AND THEIR VAULTS, TRANSFER PIPELINES, PUMP PITS, VALVE PITS, LIFT STATIONS, CATCH TANKS, THE 204-AR UNLOADING STATIONS, AND ANY OTHER ACTIVE COMPONENTS IDENTIFIED IN INTERIM MILESTONE M-48-01. THIS INTEGRITY ASSESSMENT SHALL BE COMPLETED, DOCUMENTED IN A REPORT TO ECOLOGY, AND CERTIFIED BY AN INDEPENDENT, QUALIFIED, REGISTERED, PROFESSIONAL ENGINEER (IQRPE), ON OR BEFORE MARCH 31, 2006.</p> <p>THIS INTEGRITY ASSESSMENT REPORT SHALL INCLUDE INFORMATION AND DATA SUFFICIENT TO DETERMINE THAT THE DOUBLE-SHELL TANK SYSTEM IS FIT-FOR-USE, AND WILL NOT COLLAPSE, RUPTURE, OR FAIL, UNDER NORMAL OPERATING CONDITIONS. THIS REPORT SHALL BE ACCOMPANIED BY A SCHEDULE AND RECOMMENDATIONS FOR FUTURE INTEGRITY ASSESSMENTS SUFFICIENT TO ENSURE THE SYSTEM WILL NOT COLLAPSE, RUPTURE, OR FAIL, UNDER NORMAL OPERATING CONDITIONS. THIS INTEGRITY ASSESSMENT REPORT SHALL DOCUMENT, AT A MINIMUM, ALL INFORMATION GATHERED FOR THE DOUBLE-SHELL TANK SYSTEM TO MEET THE REQUIREMENTS OF 40 CFR, SUBPART J, PART 265.191 (1), (2), (3), (4), (5) (I) AND (5) (II)</p> <p>(BECAUSE OF SPACE LIMITATIONS, PLEASE SEE TPA CHANGE REQUEST M-48-01-01 FOR 40 CFR WORDING OF SECTIONS REFERENCED ABOVE)</p>	03/31/2006
M-048-15	<p>SUBMIT A REPORT TO ECOLOGY FOR THE RE-EXAMINATION OF SIX (6) DST'S BY ULTRASONIC TESTING.</p> <p>SUBMIT A WRITTEN REPORT FOR THE RE-EXAMINATION OF SIX (6) DST'S BY ULTRASONIC TESTING IN ALL AREAS PREVIOUSLY EXAMINED TO PROVIDE COMPARATIVE DATA FROM WHICH TO CALCULATE CORROSION RATES IN EACH OF THE SIX (6) DST'S EXAMINED.</p> <p>TANKS SELECTED FOR EXAMINATION WILL BE RECOMMENDED BY USDOE AND WILL BE SUBJECT TO APPROVAL BY ECOLOGY. THE SELECTION OF EACH DST TO BE RE-EXAMINED SHALL CONSIDER ELAPSED TIME FROM PREVIOUS ULTRASONIC TESTING, SUFFICIENT TO ASSESS MEASURABLE WALL THINNING WITH THE ULTRASONIC EQUIPMENT USED. RE-EXAMINATION OF THE PREDICTED MAXIMUM STRESS REGION OF THE LOWER KNUCKLE BASE METAL MAY NOT BE REQUIRED, IF PRIOR</p>	09/30/2007

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	APPROVAL IS OBTAINED FROM ECOLOGY FOR DELETING THIS PORTION OF THE ULTRASONIC RE-EXAMINATION. THIS REPORT SHALL PROVIDE A CALCULATED CORROSION RATE FOR EACH DST, INCLUDE ALL CALCULATIONS, INCLUDE A THOROUGH DESCRIPTION OF ALL TERMS AND/OR FACTORS USED IN THE CALCULATIONS, AND INCLUDE A THOROUGH REFERENCE SECTION OF ALL CODES, STUDIES AND ASSUMPTIONS, USED IN DERIVING THE CALCULATED CORROSION RATE FOR EACH OF THE DST'S SELECTED.	
M-050-00 LEAD AGENCY: ECOLOGY	COMPLETE PRETREATMENT PROCESSING OF HANFORD TANK WASTE.	12/31/2028
M-051-00 LEAD AGENCY: ECOLOGY	COMPLETE VITRIFICATION OF HANFORD HIGH LEVEL TANK WASTE.	12/31/2028
M-061-00 LEAD AGENCY: ECOLOGY	COMPLETE PRETREATMENT AND IMMOBILIZATION OF HANFORD LOW ACTIVITY WASTE (LAW).	12/31/2028
M-062-00	<p>COMPLETE PRETREATMENT PROCESSING AND VITRIFICATION OF HANFORD HIGH LEVEL (HLW) AND LOW ACTIVITY (LAW) TANK WASTES.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-62 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-62 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p> <p>DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.</p>	12/31/2028
M-062-00A	<p>COMPLETE PRETREATMENT PROCESSING AND VITRIFICATION OF HANFORD HLW AND LAW PHASE I TANK WASTES.</p> <p>PHASE I TANK WASTE PROCESSING SHALL PRETREAT AND VITRIFY NO LESS THAN 10% OF HANFORD'S TANK WASTE BY MASS* AND 25% BY ACTIVITY.</p> <p>*[IN MEETING THIS REQUIREMENT DOE WILL PRETREAT AND VITRIFY NO LESS THAN 6000 METRIC TONS OF SODIUM (IN THE INSTANCE OF LAW FEED) AND 800 METRIC TONS OF WASTE OXIDES (IN THE INSTANCE OF HLW FEED)]</p>	02/28/2018
M-062-01H	<p>SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT.</p> <p>DOE'S MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL</p>	01/31/2004

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.	
M-062-01I	SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT. DOE'S MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA'S REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.	07/31/2004
M-062-01J	SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT.	01/31/2005

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	DOE's MANAGER, OFFICE OF RIVER PROTECTION (ORP), WILL SUBMIT A "PROJECT COMPLIANCE REPORT" TO ECOLOGY SEMI-ANNUALLY (A COPY OF THIS REPORT WILL ALSO BE PROVIDED TO EPA's REGION 10 OFFICE OF WASTE AND CHEMICALS MANAGEMENT). THIS REPORT WILL DOCUMENT DOE COMPLIANCE WITH AGREEMENT REQUIREMENTS AND SHALL BE SEQUENTIALLY UPDATED BY INFORMATION DOCUMENTING WORK PERFORMED AND ISSUES ENCOUNTERED DURING THE PREVIOUS REPORT PERIOD. THE ORP PROJECT COMPLIANCE REPORT WILL BE PROVIDED AS PART OF THE PARTIES' INTER AGENCY MANAGEMENT INTEGRATION TEAM (IAMIT) MEETINGS, AND SHALL DOCUMENT THE STATUS OF PROGRESS TO DATE, PROGRESS MADE DURING THE REPORT PERIOD, AND ACTIVITIES EXPECTED IN THE FORSEEABLE FUTURE. THE REPORT WILL INCLUDE BUT IS NOT LIMITED TO: (1) A CONCISE DESCRIPTION OF PROJECT ACCOMPLISHMENTS AND ISSUES INCLUDING THOSE ENCOUNTERED DURING THE PREVIOUS YEAR AND THOSE EXPECTED IN THE NEAR TERM, (2) WHEN APPLICABLE, A DESCRIPTION OF ACTIONS INITIATED OR OTHERWISE TAKEN TO RECOVER ANY AGREEMENT SCHEDULE SLIPPAGE, (3) A BUDGET AND COST STATUS, (4) A STATEMENT DOCUMENTING WHETHER OR NOT DOE AND DOE'S CONTRACTOR(S) REMAIN IN COMPLIANCE WITH AGREEMENT REQUIREMENTS, I.E. WHETHER OR NOT "DOE AND DOE CONTRACTOR(S) HAVE COMPLETED SUFFICIENT WORK TO ALLOW ACHIEVEMENT OF AGREEMENT REQUIREMENTS," AND (5) CONCISE DESCRIPTIONS OF ANY NONCOMPLIANCE. COPIES OF ALL PERTINENT DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS ISSUED TO DOE'S CONTRACTOR(S) SHALL BE PROVIDED ON REQUEST.	SEMI-ANNUALLY BEGINNING JULY 31, 2000
M-062-03	SUBMIT DOE PETITION FOR RCRA DELISTING OF VITRIFIED HLW. DOE WILL SUBMIT ITS PETITION FOR DELISTING OF THE IMMOBILIZED HIGH-LEVEL WASTE (HLW) FROM THE PHASE I WASTE TREATMENT PLANT FROM RCRA AND THE WASHINGTON STATE HWMA (DELISTING PETITION) IN ACCORDANCE WITH 40 CFR 260.22 AND WAC 173-303-072.	12/31/2006
M-062-07B	COMPLETE ASSEMBLY OF LOW ACTIVITY WASTE VITRIFICATION FACILITY MELTER #1 SO THAT IT IS READY FOR TRANSPORT AND INSTALLATION IN THE LAW VITRIFICATION BUILDING (BNI BASELINE SCHEDULE ACTIVITY 4DL321A300 AS PART OF DOE CONTRACT NO. DE-AC27-01RV14136). THIS MILESTONE REPRESENTS THE ASSEMBLY OF LAW MELTER #1 TO THE POINT IT IS READY FOR REFRACTORY AS PART OF BNI BASELINE ACTIVITIES 3EL3212A00 SPECIFICATIONS AND ANALYSIS, 4DL321A000 LAW - PROCURE MATERIAL & EQUIPMENT FOR MELTERS AND 4DL321A200 LAW- ASSEMBLE MELTER #1 (CONTRACT NO. DE-AC27-01RV14136). IN ADDITION, ACTIVITIES 4DL121U100 LAW - ELEV +3 SOUTH MELTER FREP AND 4DL131D000 LAW - ELEV +28 COLUMNS, BEAMS & Q-DECKING AT +48 SHALL BE SUBSTANTIALLY COMPLETED. COMPLETION OF THIS MILESTONE WILL BE MET WHEN LAW MELTER #1 WILL HAVE BEEN FULLY FABRICATED, ASSEMBLED AND READY FOR REFRACTORY MATERIAL TO BE INSTALLED. ASSEMBLY OF THE MELTER	11/30/2005

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	IS SCHEDULED TO OCCUR NEAR THE END OF LAW CONSTRUCTION WHEN THE FACILITY IS MOST READY TO HAVE THE ASSEMBLED MELTER MOVED INTO THE LAW CELL WHERE THE REFRACTORY MATERIAL WILL BE INSTALLED. MEETING THIS MILESTONE THEREFORE REPRESENTS SIGNIFICANT ACCOMPLISHMENT OF THE ENGINEERING, DESIGN AND CONSTRUCTION OF THE LAW FACILITY. FURTHERMORE, ASSEMBLY OF THE FIRST MELTER PROVIDES SIGNIFICANT OPPORTUNITY FOR LESSONS LEARNED THAT CAN BE APPLIED IN THE ASSEMBLY OF THE OTHER TWO LAW MELTERS AS WELL AS THE HLW MELTER.	
M-062-08	SUBMITTAL OF HANFORD TANK WASTE PHASE II TREATMENT ALTERNATIVES REPORT. DOE WILL SUBMIT A PRELIMINARY REPORT THAT DESCRIBES THE TECHNICAL, FINANCIAL, AND CONTRACTUAL ALTERNATIVES TO TREAT THE TANK WASTES REMAINING AFTER COMPLETION OF PHASE I TREATMENT. THE REPORT WILL IDENTIFY CREDIBLE ALTERNATIVES TO COMPLETE TREATMENT OF THE REMAINING WASTES BY 2028, AND AID IN BUDGET PLANNING FOR FUTURE BUDGET AUTHORITY SUBMITTAL. THE REPORT WILL BE UPDATED EVERY TWO YEARS UNTIL THE TANK WASTE TREATMENT PHASE II PLAN IS FINALIZED.	07/31/2005
M-062-09	START (HOT) COMMISSIONING - PHASE I TREATMENT COMPLEX. DOE WILL START HOT COMMISSIONING OF ITS TANK WASTE TREATMENT COMPLEX (DEFINED AS FIRST PRINCIPAL FACILITY RECEIPT OF RADIOACTIVE TANK WASTE FOR TREATMENT).	12/31/2007
M-062-10	COMPLETE HOT COMMISSIONING - PHASE I TREATMENT COMPLEX. DOE WILL ACHIEVE SUSTAINED THROUGHPUT OF PRETREATMENT, LOW-ACTIVITY WASTE VITRIFICATION AND HIGH-LEVEL WASTE VITRIFICATION PROCESSES, AND DEMONSTRATED TREATMENT COMPLEX AVAILABILITY TO COMPLETE TREATMENT OF NO LESS THAN 10% OF THE TANK WASTE BY MASS AND 25% OF THE TANK WASTE BY ACTIVITY BY DECEMBER 2018.	01/31/2011
M-062-11	SUBMITTAL OF HANFORD TANK WASTE TREATMENT PHASE II PLAN. DOE WILL SUBMIT TO ECOLOGY A DETAILED PLAN AND PROPOSAL FOR THE PROCESSING OF THE REMAINDER OF DOE's LAW AND HLW WASTES (PHASE II WASTES). THIS PLAN AND PROPOSAL WILL BE ACCOMPANIED BY A DRAFT NEGOTIATIONS AGREEMENT IN PRINCIPLE (AIP), AND DRAFT AGREEMENT CHANGE REQUEST CONTAINING SUFFICIENT ENFORCEABLE MILESTONES AND ASSOCIATED AGREEMENT REQUIREMENTS TO EFFECTIVELY DRIVE PHASE II WORK TO COMPLETION IN ACCORDANCE WITH AGREEMENT REQUIREMENTS. PHASE II AGREEMENT NEGOTIATIONS WILL BE COMPLETED WITHIN SIX (6) MONTHS OF AIP FINALIZATION.	01/31/2014
M-062-12	ISSUANCE OF DOE AUTHORIZATION TO PROCEED - PHASE II TREATMENT.	To Be Determined (BY

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	DOE WILL AUTHORIZE THE CONTRACT PHASE TO DESIGN, CONSTRUCT, COMMISSION, AND PROVIDE SERVICES FOR HANFORD TANK WASTE PRETREATMENT, LOW-ACTIVITY WASTE VITRIFICATION, AND HIGH-LEVEL WASTE VITRIFICATION OF ALL REMAINING HANFORD TANK WASTE, CONSISTENT WITH COMPLETION OF TREATMENT BY DECEMBER 2028.	NEGOTIA-TIONS PROVIDED FOR AT M-62-11)
M-081-00A LEAD AGENCY: ECOLOGY	<p>Complete FFTF Facility Transition and initiate the surveillance and maintenance phase.</p> <p>Completion of FFTF transition will include, but is not limited to the completion of: 1) dry cask storage of irradiated fuel, 2) dry storage of unirradiated and sodium bonded fuel, 3) sodium drain and storage 4) deactivation of the auxiliary plant systems. Work under this major milestone will be achieved by completing all activities necessary to achieve the end point criteria for placing the facility in a safe and stable surveillance and maintenance configuration.</p>	2/28/2011
M-81-00A-T02 See Note	<p>Complete transfer of unirradiated fuel to secure onsite storage.</p> <p>Thirty two unirradiated fuel assemblies presently stored in the interim decay storage vessel will be transferred to the Interim Examination and Maintenance (IEM) cell for washing and drying, loaded into existing approved shipping containers, and transferred to secure onsite storage (Should DOE's Savannah River Site (SRS) become available for FFTF fuel storage, this fuel may be shipped directly to SRS pending approval of environmental documentation).</p> <p>NOTE: The sequence of washing of unirradiated, irradiated and special fuel groups as identified in Target Dates M-81-00A-T02, M-81-00A-T03 and M-81-00A-T04 are dependent upon currently unknown external schedules (i.e. PFP shutdown schedule and INEEL (ANL-W) storage schedule), however, all the fuel will be washed and stored in time to meet the milestone date. Fuel washing operations for the fuel groups will be sequenced to accommodate storage schedules for each fuel group.</p>	3/31/2009
M-81-00A-T03 See Note	<p>Complete transfer of irradiated fuel to secure onsite storage.</p> <p>Irradiated fuel assemblies and pin containers will be transferred from the interim decay storage vessel and the fuel storage facility to the IEM cell for residual sodium removal, loaded into a core component container, transferred to the reactor service building cask loading station for placement into an interim storage cask for dry storage, and transferred to secure Hanford site storage.</p> <p>NOTE: The sequence of washing of unirradiated, irradiated and</p>	3/31/2009

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	special fuel groups as identified in Target Dates M-81-00A-T02, M-81-00A-T03 and M-81-00A-T04 are dependent upon currently unknown external schedules (i.e. PFP shutdown schedule and INEEL (ANL-W) storage schedule), however, all the fuel will be washed and stored in time to meet the milestone date. Fuel washing operations for the fuel groups will be sequenced to accommodate storage schedules for each fuel group.	
M-81-00A-T04 See Note	<p>Complete transfer of special fuel to DOE's Idaho National Engineering Laboratory for consolidated storage.</p> <p>Sodium-bonded irradiated metal and carbide fuel from assemblies cleaned in the IEM Cell will be loaded into existing, approved shipping casks, and transported to the Idaho National Engineering Laboratory (INEEL, ANL-W) in Idaho Falls, Idaho, for consolidated storage. Should the INEEL, ANL-W facility not be readily available, sodium bonded fuel will be loaded in Interim Storage Casks and transferred to a storage location on the Hanford Site (e.g., 200 or 400 Area Interim Storage Areas). One unirradiated metal fuel assembly will also be dispositioned in a similar manner.</p> <p>NOTE: The sequence of washing of unirradiated, irradiated and special fuel groups as identified in Target Dates M-81-00A-T02, M-81-00A-T03 and M-81-00A-T04 are dependent upon currently unknown external schedules (i.e. PFP shutdown schedule and INEEL (ANL-W) storage schedule), however, all the fuel will be washed and stored in time to meet the milestone date. Fuel washing operations for the fuel groups will be sequenced to accommodate storage schedules for each fuel group.</p>	3/31/2009
M-81-00A-T05	<p>Complete auxiliary plant systems deactivation.</p> <p>A major portion of the plant auxiliary systems are required to support hot sodium circulation prior to draining the sodium. As these systems, and the balance of plant systems, become available for shutdown, they will be deactivated to a safe, stable condition.</p>	2/28/2011
M-81-10-T01	<p>Submit final sodium disposition evaluation report</p> <p>The Office of River Protection will use the Hanford Site radioactive sodium inventory (i.e., FFTF, Hallam and SRE sodium following conversion to sodium hydroxide) in the Waste Treatment Plant (WTP) for tank sludge pretreatment (i.e., caustic washing). A report will be prepared in concert with M-92-10 to: 1) determine where the sodium will be converted (i.e., an existing facility operated by Argonne National Laboratory - West (ANL-W) located within the INEEL site or at a new facility to be constructed adjacent to the Sodium Storage Facility) and 2) to establish need dates for delivery</p>	09/30/2005

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	of the caustic to WTP. Following submittal of this report, appropriate milestones and/or target dates will be established for the final disposition of the sodium.	
M-81-11	<p>Submit FFTF End Point Criteria Document.</p> <p>A document identifying the end point criteria necessary to place the FFTF in a safe and stable surveillance and maintenance configuration will be developed. This document will be provided to EPA and Ecology for review, and approval for the regulated units and/or hazardous substances proposed to remain at the facility after transition is complete.</p>	8/31/2005
M-81-13	<p>Complete reactor and heat transport system sodium drain.</p> <p>Primary and Secondary heat transport systems, Reactor Vessel (including reactor vessel plenum), and supporting sodium systems will be drained to the sodium storage facility to the maximum extent practical. The sodium will be stored as product material in the sodium storage facility. Remaining sodium residuals (est. 3600 "gallons") will be solid in form (adhering to the surfaces of system components, small pockets inherent to the reactor design, and in heat transport system cold traps and valves). These residuals will be maintained under an inert gas blanket or passivated to minimize potential reactions during the long-term surveillance and maintenance phase. During final facility disposition, any regulated wastes generated from the cleaning or dismantlement of these systems will be managed in compliance with applicable regulatory requirements.</p>	6/30/2005
M-81-14	<p>Complete FFTF Sodium Drain.</p> <p>This milestone will be complete when all sodium (with the exception of noted sodium residuals) has been drained from the FFTF reactor and its associated systems and the fuel storage vessels.</p>	9/30/2009
M-81-14-T01	<p>Complete Fuel Storage Facility sodium drain.</p> <p>The Fuel Storage Facility vessel will be drained to the sodium storage facility to the maximum extent practical. Sodium residuals will be maintained under an inert gas blanket or passivated to minimize potential reactions during the long-term surveillance and maintenance phase. During final facility disposition, any regulated wastes generated from the cleaning or dismantlement of these systems will be managed in compliance with applicable regulatory requirements.</p>	4/30/2007
M-81-14-T02	<p>Initiate Interim Decay Storage Vessel sodium drain.</p> <p>This milestone will be complete when sodium drain from the</p>	6/30/2008

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	Interim Decay Storage Vessel is begun. Completion will be achieved when all the preparatory actions (i.e., procedures written and approved, plant configuration line-up, Operator training, facility startup review) have been completed and sodium is being transferred to in-plant tank T-43.	
M-81-15	<p>Submit FFTF Surveillance and Maintenance Plan.</p> <p>DOE will develop a plan detailing S&M activities to occur at FFTF during the S&M phase. This plan will be provided to EPA and Ecology for review, and approval for the regulated units and/or hazardous substances proposed to remain at the facility. This plan will include documentation of lists of hazardous substances including dangerous wastes that remain in the FFTF Facility upon completion of transition because the hazardous substance: (1) contains non-dangerous waste components that are highly radioactive, (2) is part of the plant structure and/or (3) is an intact piece(s) of equipment.</p>	06/30/2010
M-083-00A LEAD AGENCY: ECOLOGY	<p>COMPLETE PFP FACILITY TRANSITION & SELECTED DISPOSITION ACTIVITIES.</p> <p>COMPLETION OF THIS MAJOR MILESTONE INCLUDES THE FOLLOWING KEY ELEMENTS: 1) COMPLETION OF ALL ACTIVITIES NECESSARY TO ACHIEVE END POINT CRITERIA ESTABLISHED THROUGH MILESTONE M-83-20 FOR PLACING THE PFP FACILITY IN A SAFE AND STABLE S&M MODE, 2) COMPLETION OF ALL ACTIVITIES DESCRIBED IN THE APPROVED M-83 SERIES INTERIM MILESTONES AND TARGET DATE; AND 3) COMPLETION OF THE BALANCE OF PFP SELECTED DISPOSITION ACTIVITIES PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	09/30/2016
MX-083-12-T01	<p>SUBMIT PFP LEGACY PU HOLDUP REMOVAL PLAN TO ECOLOGY.</p> <p>THE PFP LEGACY PU HOLDUP REMOVAL PLAN WILL DEFINE THE STARTING INVENTORY OF PU IN VARIOUS LOCATIONS THROUGHOUT THE PROCESS FACILITIES, THE METHODS BY WHICH SIGNIFICANT CONCENTRATIONS OF HOLDUP WILL BE REMOVED AND THE DISPOSITION PATHS FOR THE HOLDUP THAT IS REMOVED. THE BEGINNING INVENTORY AND LOCATIONS CONTAINING SIGNIFICANT QUANTITIES OF PU HOLDUP WILL BE IDENTIFIED AND QUANTIFIED USING THE HANFORD SITE SAFEGUARDS DATABASE FOR ACCOUNTABLE SNM. NOTE: INVENTORY INFORMATION MAY BE CLASSIFIED AND/OR RESTRICTED FROM PUBLIC RELEASE. ADDITIONAL ENGINEERING ANALYSIS AND NON-DESTRUCTIVE ASSAY MAY BE USED TO UPDATE OLDER DATA AND/OR TO MORE PRECISELY LOCATE CONCENTRATIONS OF HOLDUP.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	12/31/2003

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-083-13	<p>COMPLETE REPACKAGING OF PFP MIXED WASTE RESIDUES AND SHIPMENT TO CENTRAL WASTE COMPLEX.</p> <p>THIS MILESTONE WILL BE COMPLETE WHEN RESIDUES IDENTIFIED IN THE IMPLEMENTATION PLAN FOR DEFENSE NUCLEAR FACILITIES SAFETY BOARD RECOMMENDATION 2000-1 DATED JULY 22, 2002, AS AMENDED HAVE BEEN REPACKAGED AT PFP AND SHIPPED TO THE CWC FOR STORAGE. THIS DOES NOT INCLUDE THOSE ITEMS IDENTIFIED AS NON-DESTRUCTIVE ASSAY (NDA) STANDARDS OR ITEMS SET ASIDE FOR THE WIPP VERIFICATION SAMPLING. PRIOR TO REPACKAGING, DATA FOR EACH RESIDUE WASTE STREAM SHALL BE OBTAINED TO SUPPORT WASTE DESIGNATION AND IDENTIFY WHERE SAMPLING AND ANALYSIS IS NEEDED. DATA FOR EACH WASTE STREAM WILL SATISFY RCRA GENERATOR REQUIREMENTS FOR DESIGNATION, WAC 173-303-070 THROUGH 110, LDR CERTIFICATION, AND THE RECEIVING FACILITY WASTE ACCEPTANCE CRITERIA, AS APPLICABLE. FOR TRU MIXED WASTE, PFP SHALL ALSO PROVIDE THE DATA NEEDS FOR CHARACTERIZATION OF TRU-MIXED WASTE STREAMS SUFFICIENT TO MEET THE ACCEPTABLE KNOWLEDGE REQUIREMENTS OF THE HANFORD TRU PROGRAM. RESIDUE CONTAINERS SHALL BE STORED IN HC-46F GLOVEBOX IN ROOM 170 OF BUILDING 234-5Z, ROOMS 192D AND 170, AND STAGED IN ROOM 169. RESIDUE CONTAINERS ARE PREPARED FOR SHIPMENT TO CWC IN ROOM 192 AND THE LOADING DOCK. THE POCS SHALL BE MANAGED IN ACCORDANCE WITH WAC 173-303-630, USE AND MANAGEMENT OF CONTAINERS. POCS SHALL MEET THE CWC REQUIREMENTS IN THE HANFORD SITE SOLID WASTE ACCEPTANCE CRITERIA AND COMPLY WITH APPLICABLE DANGEROUS WASTE MANAGEMENT REQUIREMENTS WHILE AWAITING CERTIFICATION AND TRANSFER TO WIPP. THE LOCATIONS OF WASTE MANAGEMENT ACTIVITIES MAY BE CHANGED THROUGH AGREEMENT OF THE PARTIES BY MODIFICATION OF THIS MILESTONE.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	04/30/2004
M-083-14	<p>COMPLETE 100% OF THE LEGACY PU HOLDUP REMOVAL AS DEFINED IN THE LEGACY PU HOLDUP REMOVAL PLAN FOR PFP REQUIRED BY MX-83-12-T01.</p> <p>SIGNIFICANT QUANTITIES OF PLUTONIUM NOW HELD UP IN INACTIVE AND TO-BE DEACTIVATED PFP PROCESS EQUIPMENT AND PROCESS SUPPORT SYSTEMS WILL BE REMOVED BY A VARIETY OF MEANS (BRUSHING, SCRAPING, DISSOLUTION, CHEMICAL DECONTAMINATION AGENTS, ETC.) IN ACCORDANCE WITH A PREVIOUSLY SUBMITTED LEGACY PU HOLDUP REMOVAL PLAN (MX-83-12-T01). SUFFICIENT HOLDUP WILL BE REMOVED TO MEET DOE'S CRITERIA FOR TERMINATING PROTECTED AREA CONTROLS OVER THE PROCESS EQUIPMENT AND PROCESS SUPPORT FACILITIES. PU HOLDUP REMOVED AS A RESULT OF THESE ACTIVITIES WILL BE ASSESSED AGAINST DOE'S DISCARD CRITERIA AND DISPOSITIONED VIA STABILIZATION, REPACKAGING AND TRANSFER TO THE PFP VAULTS OR TREATED AND/OR DIRECTLY REPACKAGED AS TRU WASTE OR PU RESIDUES FOR TRANSFER TO THE</p>	09/30/2006

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>CWC AND EVENTUAL DISPOSITION AT WIPP.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	
M-083-20	<p>SUBMIT FACILITY TRANSITION END POINT CRITERIA DOCUMENT AS A PRIMARY DOCUMENT TO ECOLOGY PURSUANT TO AGREEMENT ACTION PLAN SECTION 8.5.3.</p> <p>A DOCUMENT IDENTIFYING END POINT CRITERIA NECESSARY TO PLACE PFP IN AN ENVIRONMENTALLY SOUND, SAFE, AND STABLE CONFIGURATION WILL BE SUBMITTED TO ECOLOGY FOR REVIEW AND APPROVAL. LEAD REGULATORY AGENCY APPROVAL OF ENDPOINT CRITERIA IN THIS DOCUMENT WILL BE SPECIFIC TO REGULATED UNITS AND HAZARDOUS SUBSTANCES PROPOSED TO REMAIN AT THE FACILITY AFTER THE TRANSITION PHASE OF FACILITY DECOMMISSIONING IS COMPLETE. SUBSEQUENT TO THIS INITIAL SUBMITTAL, THE END POINT CRITERIA DOCUMENT MAY BE UPDATED AS NECESSARY TO REFLECT THE M-83-22 DECISION(S) FOR COMPLETION OF M-83-00A, AND THROUGHOUT TRANSITION TO REFLECT CHANGES THAT MAY OCCUR DURING DEACTIVATION WORK ACTIVITIES. AS A PRIMARY DOCUMENT, REVISIONS ARE SUBJECT TO ECOLOGY REVIEW AND APPROVAL.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	09/30/2003
M-083-22	<p>SUBMIT TO ECOLOGY AN ENGINEERING EVALUATION/COST ANALYSIS(ES) [EE/CA(S)] FOR APPROVAL AND PROVIDE AN ACTION MEMORANDUM(A) AS A PRIMARY DOCUMENT(S) FOR THE DECOMMISSIONING OF THE PFP FACILITY.</p> <p>THE ACTION MEMORANDUM(A) WILL INCLUDE A SCHEDULE FOR THE SUBMITTAL OF WORK PLANS AS PRIMARY DOCUMENT(S). SCOPING OF THE EE/CA(S) SHALL BE DONE TO SUPPORT TIMELY ACCOMPLISHMENT OF DISMANTLEMENT WORK SCOPE. MORE SPECIFICALLY, AN EE/CA AND ACTION MEMORANDUM CAN BE PHASED TO SUPPORT A NEAR TERM DISMANTLEMENT WITH SUBSEQUENT EE/CA(S) ADDRESSING REMAINING WORK SCOPE. THE ACTION MEMORANDUM(A) WILL BE CONSISTENT WITH SECTION 8 OF THE HFFACO AND WILL NOT BE INCONSISTENT WITH EXECUTIVE ORDER 12850.</p> <p>COMPLETION OF THIS MILESTONE SHALL ALSO REQUIRE DOE TO PERFORM AN EVALUATION OF ACTIONS NECESSARY TO ADDRESS BELOW-GRADE STRUCTURES OR OTHER STRUCTURES OR HAZARDOUS SUBSTANCES, DANGEROUS WASTE OR DANGEROUS CONSTITUENTS REMAINING AFTER COMPLETION OF M-83-00A. THIS WILL INCLUDE ENVIRONMENT ANALYSIS AND PUBLIC REVIEW.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	09/30/2008
M-083-23	<p>COMPLETE NEGOTIATIONS AS NEEDED FOR REVISING MILESTONES CONSISTENT WITH FINAL ACTION MEMORANDA FOR DECOMMISSIONING OF</p>	03/31/2009

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>PFP.</p> <p>IF THE FINAL ACTION MEMORANDA FOR DECOMMISSIONING OF PFP DO NOT SUPPORT THE EXISTING MILESTONES LEADING TO THE PROPOSED END POINT OF A SAFE AND STABLE SLAB-ON-GRADE CONFIGURATION, AND ECOLOGY DETERMINES THAT SUCH MILESTONES ARE NOT NEEDED TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT OR TO ACHIEVE COMPLIANCE WITH APPLICABLE REGULATIONS, THE PARTIES WILL COMPLETE NEGOTIATIONS TO ESTABLISH REVISED MILESTONES CONSISTENT WITH THE DECISION DOCUMENTATION. THIS MILESTONE IS COMPLETE IF NEGOTIATIONS ARE COMPLETED BY THE INDICATED DATE OR IF ECOLOGY DETERMINES THAT NEGOTIATIONS ARE NOT REQUIRED.</p>	
M-083-24	<p>SUBMIT A SURVEILLANCE AND MAINTENANCE (S&M) PLAN AS A PRIMARY DOCUMENT TO ECOLOGY PURSUANT TO AGREEMENT SECTION 8.5.4.</p> <p>A S&M PLAN WILL BE SUBMITTED TO ECOLOGY AS LEAD REGULATORY AGENCY. LEAD REGULATORY AGENCY APPROVAL WILL BE SPECIFIC TO INFORMATION AFFECTING REGULATED UNITS AND HAZARDOUS SUBSTANCES IN THE FACILITY. THE S&M PLAN WILL DESCRIBE THOSE ACTIVITIES THAT WILL OCCUR DURING THE S&M PERIOD AND INCLUDE THE FOLLOWING: 1) SURVEILLANCE; (2) MAINTENANCE; (3) QUALITY ASSURANCE; (4) RADIOLOGICAL CONTROLS; (5) HAZARDOUS SUBSTANCE INVENTORY, MANAGEMENT AND PROTECTION; (6) HEALTH AND SAFETY/EMERGENCY PREPAREDNESS; (7) SAFEGUARDS AND SECURITY; AND (8) COST AND SCHEDULE.</p>	06/30/2012
M-083-31	<p>DISCONTINUE WASTE DISCHARGES FROM THE 241-Z TANKS TO TANK FARMS VIA EXISTING LINES.</p> <p>AFTER JUNE 30, 2005, NO WASTE LIQUID EFFLUENT DISCHARGES FROM 241-Z TANK SYSTEM TO TANK FARMS VIA THE EXISTING TRANSFER PIPING LINES WILL OCCUR. (TRANSFERS BY OTHER MEANS, SUCH AS A TANKER TRUCK, ARE ALLOWED.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	06/30/2005
M-083-32	<p>COMPLETE CLOSURE OF THE PFP 241-Z TSD UNIT.</p> <p>COMPLETE THOSE ACTIVITIES REQUIRED BY THE 241-Z TREATMENT AND STORAGE UNIT'S RCRA CLOSURE PLAN.</p> <p>ALSO SEE "DESCRIPTION/JUSTIFICATION" CONTAINED IN CHANGE FORM M-83-01-03.</p>	09/30/2011
M-083-40	<p>COMPLETE TRANSITION AND DISMANTLEMENT OF THE 232-Z BLDG INCINERATOR.</p> <p>REMOVE THE 232-Z BUILDING PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS. INCLUDED IN THIS MILESTONE IS THE PORTION OF THE 232-Z EXHAUST DUCT INSIDE THE 291-Z BUILDING,</p>	09/30/2006

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	CONSISTENT WITH THE END POINT CRITERIA DEVELOPED IN M-83-20. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO.	
M-083-41	<p>COMPLETE TRANSITION AND DISMANTLEMENT OF THE 216-Z-9 CRIB COMPLEX.</p> <p>REMOVE THE ABOVE-GRADE PORTION OF THE 216-Z-9A, B, & C BUILDINGS PURSUANT TO THE FINAL ACTION MEMORANDA AND WORK PLANS COVERING REMAINING ELEMENTS NOT COVERED BY RCRA CLOSURE PLANS. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO.</p>	09/30/2010
M-083-42	<p>COMPLETE TRANSITION AND DISMANTLEMENT OF THE 241-Z WASTE TREATMENT FACILITY.</p> <p>REMOVE THE ABOVE GRADE PORTION OF THE 241-Z, ZA, ZB, & ZG BUILDINGS PURSUANT TO THE FINAL ACTION MEMORANDUM AND WORK PLANS COVERING REMAINING ELEMENTS NOT COVERED BY RCRA CLOSURE PLANS. DOE DEACTIVATION AND DECONTAMINATION ACTIVITIES MAY PROCEED IN ADVANCE OF CERCLA DECISION DOCUMENTS IN ACCORDANCE WITH SECTION 8 OF THE HFFACO.</p>	09/30/2011
M-083-43	<p>COMPLETE TRANSITION OF THE 242-Z WASTE TREATMENT FACILITY AND 236-Z PLUTONIUM RECLAMATION FACILITY TO SUPPORT PFP DECOMMISSIONING.</p> <p>DEACTIVATE AND PREPARE FOR FUTURE DISMANTLEMENT THE ABOVE GRADE PORTIONS OF THE 242-Z AND 236-Z BUILDINGS.</p>	09/30/2013
M-083-44	<p>COMPLETE TRANSITION OF THE 234-5Z (PLUTONIUM CONVERSION FACILITY) & ZA (PLUTONIUM CONVERSION SUPPORT FACILITY), 243-Z LOW LEVEL WASTE TREATMENT FACILITY, 291-Z EXHAUST BUILDING, AND 291-Z-1 EXHAUST STACK TO SUPPORT PFP DECOMMISSIONING.</p> <p>DEACTIVATE AND PREPARE FOR DISMANTLEMENT THE ABOVE GRADE PORTIONS OF THE 234-5Z & ZA, 243-Z, AND 291-Z AND 291-Z-1 STACK BUILDINGS.</p>	09/30/2015
M-089-00 LEAD AGENCY: ECOLOGY	COMPLETE CLOSURE OF NON-PERMITTED MIXED WASTE UNITS IN THE 324 BUILDING REC B-CELL, REC D-CELL, AND HIGH LEVEL VAULT.	10/31/2005
M-090-00	<p>COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES AS NECESSARY FOR STORAGE OF HANFORD SITE IHLW AND ILAW, AND DISPOSAL OF ILAW.</p> <p>COMPLIANCE WITH THE WORK SCHEDULES SET FORTH IN THIS M-90 SERIES IS DEFINED AS THE PERFORMANCE OF SUFFICIENT WORK TO ASSURE WITH REASONABLE CERTAINTY THAT DOE WILL ACCOMPLISH SERIES M-90 MAJOR AND INTERIM MILESTONE REQUIREMENTS.</p>	To Be Established 6 MONTHS AFTER APPROVAL OF PROJECT MANAGEMENT PLAN

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	DOE INTERNAL WORK SCHEDULES (E.G., DOE APPROVED SCHEDULE BASELINES) AND ASSOCIATED WORK DIRECTIVES AND AUTHORIZATIONS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THIS AGREEMENT. MODIFICATION OF DOE CONTRACTOR BASELINE(S) AND ISSUANCE OF ASSOCIATED DOE WORK DIRECTIVES AND/OR AUTHORIZATIONS THAT ARE NOT CONSISTENT WITH AGREEMENT REQUIREMENTS SHALL NOT BE FINALIZED PRIOR TO APPROVAL OF AN AGREEMENT CHANGE REQUEST SUBMITTED PURSUANT TO AGREEMENT ACTION PLAN SECTION 12.0.	
M-090-08	INITIATE ILAW DISPOSAL FACILITY CONSTRUCTION. INITIATION OF CONSTRUCTION OCCURS WHEN DOE OR ITS CONTRACTOR (AS AUTHORIZED) ISSUES AN APPROVAL TO START CONSTRUCTION AND THE CONTRACTOR COMMENCES EXCAVATION OF NON-CRITICAL SYSTEMS WITHIN THE RCRA DISPOSAL FACILITY.	02/28/2005
M-090-10	INITIATE PLACEMENT OF ILAW WASTE CANISTERS IN ILAW DISPOSAL FACILITY. (LOW ACTIVITY WASTE PACKAGES PLACED WITHIN THESE FACILITIES WILL BE RETRIEVABLE).	08/31/2008
M-090-11	COMPLETE CANISTER STORAGE FACILITY CONSTRUCTION. COMPLETION OF THIS MILESTONE REQUIRES THE COMPLETION OF ALL CONSTRUCTION, INTERNAL/EXTERNAL FACILITY(S) MODIFICATIONS AND STARTUP ACTIVITIES NECESSARY FOR CANISTER STORAGE FACILITY RECEIPT OF ALL PHASE I HANFORD SITE HIGH LEVEL WASTE CANISTERS FROM TANK WASTE REMEDIATION SYSTEM (TWRS) PROCESSING. FOR PURPOSES OF THIS INTERIM MILESTONE PHASE I IHLW CANISTER STORAGE IS DEFINED AS THE CAPABILITY FOR STORAGE OF AT LEAST 600 IHLW CANISTERS. INTERIM MILESTONES AND ASSOCIATED TARGET DATES ESTABLISHING WORK SCHEDULES FOR PHASE II IHLW CANISTER STORAGE WILL BE ESTABLISHED PURSUANT TO THE PHASE II REQUEST FOR PROPOSAL FOR TWRS PRIVATIZATION. FOR PERMITTING PURPOSES DETAILS DESIGN OF CRITICAL SYSTEMS INCLUDES THE CANISTER STORAGE TUBE SYSTEM.	06/30/2009
M-091-00	COMPLETE THE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF ALL HANFORD SITE TRU/TRUM, LLMW, AND GTC3. * NEGOTIATION OF SCHEDULES FOR FACILITY MODIFICATION WHICH MAY BE NECESSARY FOR THE MANAGEMENT OF PRE 1970 TRU/TRUM WILL BE ESTABLISHED FOLLOWING THE ISSUANCE OF OPERABLE UNIT RECORDS OF DECISION (RODS). NOTE: The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed	To Be Determined*

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.	
M-091-01	<p>COMPLETE THE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR STORAGE, AND TREATMENT/PROCESSING PRIOR TO DISPOSAL OF ALL HANFORD SITE POST 1970 TRU/TRUM.</p> <p>** THE DATE FOR COMPLETION OF M-91-01 WILL BE DETERMINED AFTER REQUIRED TECHNOLOGY HAS BEEN DETERMINED THROUGH THE TRU/TRUM PMP, BUT WILL BE NO LATER THAN DECEMBER 2000.</p> <p>NOTE: The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>	<p>To Be Established</p> <p>**</p> <p>(BUT NO LATER THAN 12/31/2000)</p>
M-091-03	<p>SUBMIT HANFORD SITE TRU/TRUM WASTE PROJECT MANAGEMENT PLAN (PMP) TO ECOLOGY PURSUANT TO AGREEMENT SECTION 11.5.</p> <p>THE HANFORD SITE TRU/TRUM WASTE PMP WILL INCLUDE ALL PLAN ELEMENTS REQUIRED BY AGREEMENT ACTION PLAN SECTION 11.5. APPROVAL OF THE TRU/TRUM PMP AND ACCOMPANYING AGREEMENT CHANGE REQUEST WILL ESTABLISH ALL MAJOR PROJECT TASKS AND DELIVERABLES FOR TREATMENT/STORAGE OF HANFORD SITE TRU/TRUM INCLUDING COMMERCIAL SECTOR MANAGEMENT, MODIFICATION OF EXISTING FACILITIES, AND CONSTRUCTION OF NEW FACILITIES.</p> <p>NOTE: The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.</p>	06/30/2000
M-091-05-T01	<p>COMPLETE AND SUBMIT TRU/TRUM RETRIEVAL AND PROCESSING FACILITY ENGINEERING STUDY/FUNCTIONAL DESIGN CRITERIA STUDY TO ECOLOGY.</p> <p>THE TRU/TRUM ENGINEERING/FUNCTIONAL DESIGN CRITERIA STUDY WILL COVER ACTIVITIES/FACILITIES NOT CONSIDERED COMMERCIALY VIABLE AS DOCUMENTED IN THE APPROVED TRU/TRUM PMP AND ASSOCIATED AGREEMENT CHANGE REQUESTS.</p> <p>NOTE: The M-91 milestone series and/or parts thereof have</p>	12/31/2002

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.	
M-091-07	COMPLETE PROJECT W-113 FOR POST 1970 CH TRU/TRUM RETRIEVAL. <u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.	09/30/2004
M-091-08-T01	COMPLETE CONSTRUCTION AND INITIATE HOT OPERATIONS OF RH AND LARGE SIZE TRU/TRUM PROCESSING FACILITY (A FINAL ACQUISITION SCHEDULE FOR THIS FACILITY WILL BE ESTABLISHED AS AN INTERIM MILESTONE NO LATER THAN DECEMBER 2000). <u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.	06/30/2005
M-091-12	COMPLETE THERMAL TREATMENT AND DISPOSAL OF AN ADDITIONAL 360 CUBIC METERS OF CONTACT HANDLED LLMW. THIS BRINGS THE CUMULATIVE TOTAL TO AT LEAST 600 CUBIC METERS OF CONTACT HANDLED LLMW THERMALLY TREATED AND DISPOSED OF. <u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.	12/31/2005
M-091-12A	COMPLETE THERMAL TREATMENT AND DISPOSAL OF AT LEAST 240 CUBIC METERS OF CONTACT HANDLED LLMW. <u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was	12/31/2004

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.	
M-091-15	COMPLETE ACQUISITION OF FACILITIES AND INITIATE TREATMENT OF RH AND LARGE CONTAINER (CH) LLMW. <u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.	06/30/2008
M-091-21-T01	COMPLETE PHYSICAL ACTIVITIES AT T PLANT NECESSARY TO STORE CANISTER AND FUEL WASH SLUDGE. THIS TARGET IS COMPLETE UPON THE DECLARATION OF COMPLETION OF MODIFICATIONS REQUIRED TO STORE CANISTER AND FUEL WASH SLUDGE IN T PLANT. <u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.	11/29/2003
M-091-22	T PLANT IS READY TO RECEIVE CANISTER AND FUEL WASH SLUDGE FROM K BASINS. THIS INTERIM MILESTONE WILL BE COMPLETE WHEN ALL T PLANT READINESS ACTIVITIES HAVE BEEN COMPLETED TO ACCEPT CANISTER AND FUEL WASH SLUDGE. READINESS IS DEFINED AS THE ISSUANCE OF THE READINESS TO PROCEED LETTER BY THE APPROVAL AUTHORITY. <u>NOTE:</u> The M-91 milestone series and/or parts thereof have been in dispute resolution under Agreement Article VIII, Paragraph 30. An Ecology Director's Final Determination was issued March 10, 2003. On April 9, 2003, the DOE appealed the Director's Final Determination to state and federal courts for final resolution. The DOE will incorporate the final resolution into the appropriate plan and/or schedule pursuant to Article VIII, Paragraph 30, I of the Agreement.	02/29/2004
M-092-00	COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED	To Be Established

Table D. Major and Interim Milestones and Target Dates

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	FACILITIES NECESSARY FOR THE STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE CESIUM AND STRONTIUM CAPSULES (Cs/Sr), BULK SODIUM (Na), AND 300 AREA SPECIAL WASTE (SCW).	BY OCTOBER 1998
M-092-01	COMPLETE COMMERCIAL DISPOSITION AND/OR ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR SITEWIDE CONSOLIDATION, AND STORAGE PRIOR TO COMMERCIAL USE, OR TREATMENT AND/OR REPACKAGING BY DOE TWRS. COMPLETION OF THIS MILESTONE REQUIRES THE COMPLETION OF COMMERCIAL DISPOSITION AND/OR ALL CONSTRUCTION, INTERNAL/EXTERNAL FACILITY(S) MODIFICATIONS, AND STARTUP ACTIVITIES NECESSARY FOR THE TREATMENT/PROCESSING, REPACKAGING (IF NECESSARY), AND STORAGE OF Cs/Sr (TO INCLUDE UNENCAPSULATED SALTS) LOCATED AT THE: (1) "ARECO" FACILITY IN LYNCHBERG VA (25 CAPSULES), (2) HANFORD 300 AREA (13 CAPSULES AT THE 327 POOL FACILITY AND EXCESS CS/SR SALTS AT THE 324 FACILITY), AND (3) HANFORD WASTE ENCAPSULATION AND STORAGE FACILITY (WESF) IN THE 200 EAST AREA.	12/31/2009
M-092-05	INCLUSION OF HANFORD SITE Cs/Sr "TREATMENT AND/OR REPACKAGING PARAMETERS" IN DOE TWRS PHASE II REQUEST FOR PROPOSALS (TREATMENT AND/OR REPACKAGING OF ALL REMAINING Cs/Sr). DOE WILL ASSESS THE VIABILITY OF DIRECTLY DISPOSING OF HANFORD CS/SR CAPSULES AT THE NATIONAL HIGH-LEVEL WASTE REPOSITORY BASED ON THIS ASSESSMENT, IF DOE CONCLUDES THAT DIRECT DISPOSAL IS A VIABLE AND PREFERRED ALTERNATIVE TO VITRIFICATION, DOE WILL SUBMIT TO ECOLOGY SPECIFIC DOCUMENTATION JUSTIFYING ITS CONCLUSION, WITH A PROPOSED MILESTONE CHANGE REQUEST ESTABLISHING ENFORCEABLE AGREEMENT MILESTONES FOR DISPOSITIONING HANFORD CS/SR CAPSULES BY 2028.	06/30/2007
MX-092-06-T02	COMPLETE THE DISPOSAL/OR DISPOSITION OF APPROXIMATELY 135 METRIC TONS OF UNIRRADIATED CONTAMINATED FUEL LOCATED IN THE 300 AREA AND 5 METRIC TONS OF MISCELLANEOUS URANIUM SOURCE MATERIALS LOCATED IN ALL 300 AND 200 AREA FUEL SUPPLY SHUTDOWN FACILITIES, AND COMPLETE DISPOSAL/DISPOSITION OF APPROXIMATELY 825 METRIC TONS OF UN-IRRADIATED FUEL SOURCE MATERIALS LOCATED IN THE 300 AREA FUEL SUPPLY SHUTDOWN FACILITIES.	09/30/2006
M-092-09	ESTABLISH MILESTONES AND/OR TARGET DATES IF NEEDED FOR ACQUISITION OF NEW FACILITIES, MODIFICATIONS OF EXISTING FACILITIES, AND /OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR STORAGE, TREATMENT/PROCESSING, AND DISPOSAL OF HANFORD SITE SODIUM.	07/30/2009
M-092-10	SUBMIT HANFORD SITE SODIUM DISPOSITION EVALUATION REPORT TO ECOLOGY. THE REPORT SHALL BE PREPARED IN CONCERT WITH M-81-10-T01, WHICH INDICATES THAT THE OFFICE OF RIVER PROTECTION (ORP) WASTE TREATMENT PLANT WILL USE THE HANFORD SITE RADIOACTIVE	09/30/2005

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	SODIUM INVENTORY (I.E. FFTF, HALLAM, AND SRE), FOLLOWING CONVERSION TO SODIUM HYDROXIDE, FOR TANK SLUDGE PRETREATMENT (I.E. CAUSTIC WASHING). THE REPORT WILL DETERMINE THE ORP NEED DATES AND IDENTIFY WHERE THE HANFORD SITE SODIUM INVENTORY WILL BE CONVERTED TO SODIUM HYDROXIDE, I.E., AT THE EXISTING ARGONNE NATIONAL LABORATORY - WEST SODIUM PROCESSING FACILITY (LOCATED WITHIN THE IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY SITE) OR AT A NEW FACILITY TO BE CONSTRUCTED AT HANFORD.	
MX-092-11-T01	COMPLETE DISPOSITION OPTIONS FOR ALL HANFORD NON-RADIOACTIVE SODIUM.	09/30/2004
M-092-12	COMPLETE ACQUISITION OF NEW FACILITIES, MODIFICATION OF EXISTING FACILITIES, AND/OR MODIFICATION OF PLANNED FACILITIES NECESSARY FOR CONSOLIDATED STORAGE PRIOR TO DISPOSAL OF HANFORD SITE 300 AREA SPECIAL CASE WASTE (SCW).	09/30/2006
M-092-16	COMPLETE REMOVAL AND TRANSFER, AND INITIATE STORAGE OF PHASE III 300 AREA SCW WASTE AND MATERIALS. PHASE III INVENTORY WILL CONSIST OF ANY REMAINING 300 AREA SCW WASTES AND MATERIALS.	09/30/2006
M-093-00 LEAD AGENCY: DUAL	COMPLETE FINAL DISPOSITION OF ALL 100 AREA SURPLUS PRODUCTION REACTOR BUILDINGS. 100 AREA SURPLUS PRODUCTION REACTOR BUILDINGS CONSIST OF THE FOLLOWING: 105-D, 105-DR, 105-H, AND 105/109-N (ECOLOGY LEAD), AND 105-B, 105-C, 105-F, 105-KE, AND 105-KW (EPA LEAD).	To Be Determined
M-093-11	COMPLETE 105-F INTERIM SAFE STORAGE. THIS MILESTONE INCLUDES THE COMPLETION OF ALL ACTIVITIES NECESSARY TO PLACE THE 105-F REACTOR FACILITY IN A SAFE STORAGE MODE IN PREPARATION FOR FINAL DISPOSITION (CONSISTENT WITH AN APPROVED S&M PLAN AND PROJECT DESIGN REPORT). THE ISS OF F REACTOR INCLUDES THE DISMANTLEMENT OF ALL 105-F FACILITY STRUCTURES OUTSIDE THE REACTOR PRIMARY SHIELD WALL. THESE ACTIVITIES INCLUDE HAZARD STABILIZATION, ASBESTOS ABATEMENT, FACILITY DECONTAMINATION, PIPE-CUTTING, FUEL BASIN CLEAN OUT, AND STRUCTURE REMOVAL TO THE PRIMARY SHIELD WALL.	09/30/2004
M-093-17	COMPLETE THE INTERIM SAFE STORAGE FOR THE 105-D REACTOR.	12/31/2004
M-093-18	COMPLETE THE INTERIM SAFE STORAGE FOR THE 105-H REACTOR.	12/31/2005
M-093-19	SUBMIT TO EPA AND ECOLOGY THE 105/109-N REACTOR INTERIM SAFE STORAGE DESIGN REPORT.	09/30/2009
M-093-20	COMPLETE 105-N REACTOR INTERIM SAFE STORAGE.	09/30/2012
M-093-22	COMPLETE 105-KE AND 105-KW REACTOR INTERIM SAFE STORAGE.	09/30/2011
M-093-23	SUBMIT ENGINEERING EVALUATION/COST ANALYSIS (EE/CA) FOR KE/KW REACTOR ISS.	07/31/2006

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<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
M-093-24	SUBMIT EE/CA FOR N REACTOR ISS.	09/30/2006
M-093-25	SUBMIT AN ENGINEERING EVALUATION OF THE FINAL SURPLUS REACTOR DISPOSITION TO EPA AND ECOLOGY.	09/30/2005
M-094-00	COMPLETE DISPOSITION OF 300 AREA SURPLUS FACILITIES. COMPLETION OF FACILITY DISPOSITION IS DEFINED AS THE COMPLETION OF DEACTIVATION, DECONTAMINATION, AND DECOMMISSIONING, AND OBTAIN EPA AND/OR ECOLOGY APPROVAL OF THE APPROPRIATE PROJECT CLOSEOUT DOCUMENTS. SURPLUS FACILITIES ARE DEFINED AS ANY FACILITY OR SITE (INCLUDING EQUIPMENT) THAT HAS NO IDENTIFIED PROGRAMMATIC USE BY THE OPERATING PHASE PROGRAM SECRETARIAL OFFICER. THE CLEANUP OF 300-FF-2 WASTE SITES ASSOCIATED WITH 300 AREA SURPLUS FACILITIES WILL BE PERFORMED IN ACCORDANCE WITH TRI-PARTY AGREEMENT MAJOR MILESTONE M-016-00B.	09/30/2018
M-094-01	SUBMIT A SCHEDULE AND TPA MILESTONES TO COMPLETE DISPOSITION OF THE FOLLOWING SURPLUS FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327 (SEE TPA CHANGE REQUEST M-94-01-01, TABLE 1). THE MILESTONE DELIVERABLE SHALL INCLUDE AT LEAST: 1) A SCHEDULE FOR SUBMITTALS OF ENGINEERING EVALUATION/COST ANALYSES (EE/CA), REMOVAL ACTION MEMORANDA, REMOVAL ACTION WORK PLANS, AND OTHER REQUIRED DOCUMENTS FOR EPA AND/OR ECOLOGY APPROVAL; 2) A SCHEDULE THAT DEFINES INITIATION AND COMPLETION DATES FOR THE DISPOSITION OF THE FOLLOWING SURPLUS FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327; 3) A TRI-PARTY AGREEMENT CHANGE PACKAGE THAT INCLUDES MILESTONES FOR GROUPS OF SURPLUS FACILITIES AND ASSOCIATED WASTE SITES THAT WILL ENSURE COMPLETION OF M-094-00; AND, 4) AN EVALUATION OF OUTYEAR TRI-PARTY AGREEMENT MILESTONES FOR THE 300 AREA TO SEE IF THEY CAN BE ACCELERATED. IT IS EXPECTED THAT SCHEDULES WILL BE ALIGNED WITH THE ASSOCIATED SCHEDULES REQUIRED BY M-016-63. EE/CA'S AND ACTION MEMORANDA FOR THE FOLLOWING FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224 AND 3225, MUST BE COMPLETED AND ASSOCIATED CLEANUP COMMENCED PRIOR TO SUBMITTING ANY DOCUMENTS REQUIRING EPA AND/OR ECOLOGY APPROVAL FOR OTHER 300 AREA FACILITY DISPOSITION WORK. THIS WILL ALLOW THE OPPORTUNITY TO FACTOR "LESSONS LEARNED FROM REMEDY IMPLEMENTATION" INTO THE REMAINING DOCUMENTS.	11/30/2003
M-094-03	COMPLETE DISPOSITION OF THE FOLLOWING SURPLUS FACILITIES: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327 (SEE TPA CHANGE REQUEST M-94-01-01, TABLE 1).	09/30/2010
M-094-04	SUBMIT A SCHEDULE AND TRI-PARTY AGREEMENT MILESTONES TO COMPLETE DISPOSITION OF THE SURPLUS FACILITIES IN THE 300	08/30/2005

Table D. Major and Interim Milestones and Target Dates

Document current as of September 1, 2003

<u>Number</u>	<u>Milestone</u>	<u>Due Date</u>
	<p>AREA AND IDENTIFY THE 300 AREA FACILITIES AND ASSOCIATED WASTE SITES THAT WILL REMAIN PAST THE M-094-00 COMPLETION DATE (9/30/2018).</p> <p>THE MILESTONE DELIVERABLE SHALL INCLUDE AT LEAST: 1) A SCHEDULE FOR SUBMITTALS OF ENGINEERING EVALUATION/COST ANALYSES (EE/CA), REMOVAL ACTION MEMORANDA, REMOVAL ACTION WORK PLANS, CLOSURE/POST CLOSURE PLANS (IN COORDINATION WITH THE 300 AREA WATS AND 340 BUILDING ASSOCIATED WORK PLANS SUBMITTALS AS APPROPRIATE), AND OTHER DOCUMENTS THAT REQUIRE EPA AND/OR ECOLOGY APPROVAL; 2) A SCHEDULE THAT DEFINES INITIATION AND COMPLETION DATES FOR THE DISPOSITION OF THE SURPLUS FACILITIES; 3) A TRI-PARTY AGREEMENT CHANGE PACKAGE THAT INCLUDES MILESTONES FOR GROUPS OF SURPLUS FACILITIES AND ASSOCIATED WASTE SITES THAT WILL ENSURE COMPLETION OF M-094-00; AND, 4) A CLEARLY DEFINED MISSION AND TRI-PARTY AGREEMENT DISPOSITION PATH FOR ANY REMAINING FACILITIES IN THE 300 AREA. IT IS EXPECTED THAT SCHEDULES WILL BE ALIGNED WITH THE ASSOCIATED SCHEDULES REQUIRED BY M-016-65.</p>	